2025
Annual Environmental Radiological Monitoring Data Summary Report for the Pinyon Plain Mine

April 2026

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Section 1.0 Introduction

On behalf of Energy Fuels, Inc. (Energy Fuels), Environmental Restoration Group, Inc. (ERG) has prepared this summary report detailing the 2025 annual environmental radiological monitoring near the Pinyon Plain Mine, formerly known as the Canyon Mine, in Coconino County, Arizona. The Pinyon Plain Mine is a fully permitted operational uranium mine located on lands administered by United States Forest Service (USFS). The mine is located approximately seven miles south of Tusayan, Arizona. The regional setting of the Pinyon Plain Mine is shown in Figure 1.

The operational radiological monitoring reported herein shows radiological conditions for the second operational year of Pinyon Plain Mine. Monitoring was conducted in accordance with requirements set forth in the 1986 Record of Decision (ROD) for the Canyon Mine Proposal, Final Environmental Impact Statement (USFS 1986). Sampling methods and locations for this operational monitoring are consistent with those used in preoperational monitoring collected as part of the Radiological Assessment of the Canyon Mine Project (McKlveen, 1985), Supplemental Preoperational Baseline Radiological Monitoring Data for the Canyon Mine (ERG, 2017) and the Supplemental Preoperational Baseline Radiological Monitoring Data for the Pinyon Plain Mine (ERG, 2025).

The monitoring program consists of direct gamma radiation measurements, radon-222 and its progeny in air, and radionuclides in soil and surface water. The sampling type, parameters, and frequency are shown in Table 1 and are summarized below.

- Direct gamma radiation measurements consisted of:
    - Four consecutive quarterly dose rate measurements were conducted at each of 12 locations from the first quarter (Q1) through the fourth quarter (Q4). These measurements were conducted using optically stimulated luminescence (OSL) badge dosimeters.
    - High Pressure Ionization Chamber (HPIC) measurements were conducted at each location and time during the quarterly deployment of OSL badge dosimeters.
    - Exposure rate measurements were conducted using a portable radiation measurement survey meter at each location and time during the quarterly deployment of OSL badge dosimeters.
- Radon and its progeny measurements consisted of:
    - Radon-222 concentrations in air were measured at each of three locations from Q1 through Q4. These concentrations were measured using passive track-etch cup detectors with each quarterly measurement lasting approximately 90 days.
    - Radon progeny concentrations in air were measured following the Modified-Kusnetz method at each location and time during the quarterly deployment of alpha track-etch cups.
- Soil sampling consisted of a one-time sampling event which occurred at each of six locations during the Q3 and Q4 transition.
- Surface water sampling consisted of a one-time sampling event which occurred only at the Owl Tank stock pond during the Q3 and Q4 transition. There was no surface water present in the South Wash during any visit to the site in 2025.

Section 2.0 Methods

The methods for each type of measurement conducted during 2025 annual environmental radiological monitoring are discussed below.

2.1 Direct Gamma Radiation

Direct gamma radiation measurements consisted of three types of measurements; each made quarterly for a period of four quarters. These measurements are discussed in the following sections. The locations for each type of measurement are shown in Figure 2 and include:

- Grand Canyon National Park Airport (Airport),
- Tusayan Ranger Station,
- Owl Tank,
- Location described as South Wash where an elevated radiological anomaly was identified in the 1985 McKlveen studies, and
- Locations of equal distance from the mine shaft in eight compass directions.

In total, 12 different locations were monitored for direct gamma radiation during 2025. The following subsections describe the methods used to measure direct gamma radiation at each monitoring location.

2.1.1 Dose Rate Measurements

Radiation dose rate measurements were conducted using InLight OSL badge dosimeters provided by Landauer, a National Voluntary Laboratory Accreditation Program (NVLAP)-approved provider for ionizing radiation dosimetry services. An OSL badge dosimeter was deployed at each of the locations described above and shown in Figure 2 for approximately one calendar quarter, or 90 days. Deployment and retrieval dates for the OSL badge dosimeters are listed in Table 2.

The OSL badge dosimeters were placed on tree branches, wooden posts, t-post, or other available features such as fencing, approximately 1-meter above the ground surface (ags) and away from any obstacle that might influence the measurement by shielding gamma radiation. An additional OSL badge dosimeter was placed at the Northwest (NW) location for each period to serve as a duplicate measurement.

2.1.2 High Pressure Ion Chamber Measurements

The HPIC measures exposure rate from interactions of gamma, x-rays, and cosmic radiation without discrimination. HPIC measurements were made at each location described above at the quarterly deployment of the OSL badge dosimeters. The measurements were collected every six-second interval over a period of greater than ten minutes using a GE Energy Model RSDetection HPIC with the center of the ion chamber approximately 1-meter ags. All readings were logged automatically to the internal HPIC datalogger, downloaded to a laptop computer, and then transferred into a spreadsheet for analysis.

2.1.3 Portable Scintillometer Measurements

Exposure rate measurements using a Ludlum Model 19, a 1-inch by 1-inch sodium iodide (NaI) scintillometer, were made at each location described above at the quarterly deployment of the OSL badge dosimeters. The exposure rate reading for each location was recorded manually in a field logbook or measurement log form.

2.2 Radon-222 and Progeny Measurements

Radon-222 concentration in air and working level (the level of radon-222 decay products) measurements were made at three locations (Airport, Mine Site, and South Wash), shown in Figure 2. Consistent with the direct gamma measurements, the radon-222 and working level measurements were each made quarterly for a period of four quarters. The following subsections describe the methods used to measure radon-222 and its progeny.

2.2.1 Radon-222 Measurements

Radon-222 concentrations in air were measured at each of the three locations described above and shown in Figure 2, using a passive Radonova Rapidos high sensitivity track-etch detector for a period of approximately one calendar quarter each. Deployment and retrieval dates for the three locations coincide with the quarterly OSL badge dosimeter deployment and retrieval dates at each location.

The detectors were placed in a protective housing attached to a wooden post, t-post, or other available feature such as fencing at approximately one-meter ags.

2.2.2 Working Level Measurements

Radon-222 decay products, or progeny, concentrations in air are typically expressed in the unit of working level (WL) or milli-working level. WL measurements were made at each of the three locations described above and shown in Figure 2, using the Modified-Kusnetz method described in "Measuring Airborne Radon Progeny at Uranium Mills" (CNSC, 2003). The dates and times the WL measurements were made coincided with the quarterly Rapidos track-etch detector (and OSL badge dosimeter) deployments.

Air samples were collected for five minutes using an air pump operating at 2.5 liters per minute through a 37-millimeter (mm) glass fiber filter. The filter was counted for alpha radiation emissions using a Ludlum Model 2929 with Ludlum Model 43-10-1 tray counter. Sample and background count times were ten minutes each to decrease the minimum detectable concentration (MDC). Despite this increase in sample counting time, WL measurements are consistently less than the measurement MDC.

2.3 Soil Sampling

Surface soil samples were collected on September 30 and October 1, 2025, at the locations described in Table 1 and shown in Figure 2. A grab sample from 0 to 5 centimeters (cm) was collected from each location using a hand trowel. The sample was placed in a Ziplock plastic bag and labeled with date, time, sample location, and sampler's initials. The samples were initially sent to ACZ Laboratories in Steamboat Springs, CO, a National Environmental Laboratory Accreditation Conference (NELAC)-approved laboratory with Arizona Dept of Health Service (ADHS), Environmental Laboratory Licensure (License Number AZ0102). The proper chain of custody protocol was used in shipping. The samples were analyzed for the following radiological parameters:

- Gross alpha activity
- Gross beta activity
- Radium-226
- Total Uranium
- Potassium-40
- Thorium-232
- Thallium-208
- Cesium-137

The results from ACZ indicated concentrations of gamma-emitting constituents generally higher than historical results, particularly for Ra-226 (via EPA Method 901.1). Because of this, the sample material was also sent to additional AZ-licensed laboratories for analysis of Ra-226 (via EPA Method 901.1). The samples were sent to Radiation Safety Engineering (Chandler, AZ) and Pace National Laboratory (Greensburg, PA) for additional analyses and comparison.

2.4 Surface Water Sampling

The monitoring plan required a one-time sampling of surface water in both the South Wash and at Owl Tank, if surface water was present in sufficient quantity to sample. During the periods that ERG staff were at the site, surface water was present at Owl Tank but not South Wash; therefore, the only surface water sample collected was at Owl Tank.

Note: There is no perennial flow. Water is only present in the southern wash immediately following storm events.

Section 3.0 Results

The results for each type of measurement collected pursuant to the scope of work are discussed below.

3.1 Direct Gamma Radiation

The results for direct gamma radiation monitoring are provided in the following subsections.

3.1.1 Dose Rate Measurements

The dose rate measurements from deployed environmental OSLs for the 2025 monitoring period are shown in Table 3. The measured quarterly radiation dose rates for all locations ranged from 19.0 to 39.4 mrem per quarter. The location with the highest average quarterly dose rate is South Wash, consistent with previous investigations (McKlveen, 1985, ERG, 2025). The location with the lowest quarterly dose rate was the South (S) location, shown in Figure 2. The average quarterly dose rate for all locations is 28.8 mrem per quarter, or 13.2 microrem per hour (µrem/hr). The Q4 badge deployed at the South Wash location was lost at some point during its deployment, and therefore data this badge was not included in this report.

All results in Table 3 were account for an average transit control dosimeter response of 0.2 mrem per day while in transit and not deployed at monitoring locations. The Landauer laboratory data reports are provided in Appendix A.

3.1.2 High Pressure Ion Chamber Measurements

The exposure rate measurements for the HPIC are shown in Table 4. The quarterly exposure rates ranged from 11.6 to 17.7 µR/hr. The South Wash location had the highest individual exposure rate measurement at 17.7 µR/hr which occurred in Q3. The lowest individual exposure rate measurement was 11.6 µR/hr which occurred at the South Location in Q2. The average exposure rate across all locations was 13.5 µR/hr.

3.1.3 Portable Scintillometer Measurements

The exposure rate measurements made using the Ludlum Model 19 are shown in Table 4. The exposure rates ranged from 9.0 to 20.5 µR/hr. The South Wash in Q3 location had the highest observed exposure rate. The location with the lowest exposure rate was the Tusayan Ranger Station location in Q1. The annual average for all locations was 12.3 µR/hr.

HPIC data are considered a truer measure of exposure rate while the Ludlum Model 19 measurements are estimated based on a calibration source (Cs-137). Unlike the Model 19, the HPIC is energy independent and can provide consistent readings across a wide array of gamma energies. Therefore, it is advantageous to convert Ludlum Model 19 measurement to true exposure rate readings using a site-specific conversion factor. Based on the HPIC and Ludlum Model 19 data collected, the most appropriate site-specific conversion factor is 1.8, per an equipment correlation regression shown in Figure 3. To convert a Ludlum Model 19 measurement result to a predicted HPIC measurement result, multiply the Ludlum Model 19 measurement by 1.8.

3.2 Radon-222 and Progeny Measurements

The results for the radon-222 and its progeny monitoring are provided in the following subsections.

3.2.1 Radon-222 Measurements

The radon-222 concentrations in air results are provided in Table 5. The radon-222 concentrations range from 0.16 picocuries per Liter (pCi/L) at South Wash in Q2 to 1.2 pCi/L at the Mine Site in both Q3 and Q4. In three cases the reported radon concentration results were less than the MDCs: Airport Q2 < 0.19 pCi/L, South Wash Q2 < 0.16 pCi/L, and Mine Site Q2 < 0.24 pCi/L. The Mine Site location in Q3 and Q4 showed the highest concentrations (1.2 pCi/L). The average concentration for all areas and periods is 0.47 pCi/L. The Radonova laboratory data reports are provided in Appendix B.

3.2.2 Working Level Measurements

The radon-222 decay product concentrations in air results are shown in Table 6. In all but one case the working level measurements were less than the measurement MDC (Tusayan Airport on 9/30/2025). The measured radon-222 decay product concentrations range from 0.0 to 3.5 milli-Working Levels (mWL). However, due to the measurements generally being less than the measurement MDC, MDC values are reported in Table 6. Using these reported values, the concentration ranges from 3.1 mWL to 4.9 mWL with an average of 4.2 mWL.

The highest concentration observed, and the only measurement greater than the MDC, was at the Tusayan Airport in Q4. This was 3.5 mWL (MDC of 2.6 mWL). All reported WL results, whether reported as measured result or the measurement MDC, are very low.

3.3 Soil Sampling

The results for the soil samples analyzed for radiological parameters are shown in Table 7. Soil samples were sent to multiple labs for analysis using EPA Method 901.1, as described in Section 2.3.

Upon review of historical and current results, the ACZ Laboratories' Ra-226 results were always higher than other laboratories used. Historically, the Ra-226 concentrations have been on the order of 1.0 to 3.0 pCi/g. Multiple laboratories (e.g., RSE, Pace Analytical) have consistently returned results < 3 pCi/g while ACZ results are consistently > 3 pCi/g. It is recommended that ACZ Laboratories not be used for Ra-226 analysis as there appears to be a bias towards higher values when compared with other laboratories.

For this report, the results for Ra-226 soil concentrations from Radiation Safety Engineering are reported in Table 7. There was general agreement across lab results for other gamma emitting radionuclides (K-40, Tl-208, Cs-137, Th-232), so these results from the initial analysis at ACZ are reported in Table 7.

A summary of the soil sampling results is as follows:

- Radium-226 concentrations were measured by EPA Method 901.1 (Radiation Safety Engineering) and ranged from 0.99 pCi/g to 1.51 pCi/g with an average concentration of 1.16 pCi/g. South Wash had the highest radium-226 concentration in soil.

- Gross alpha concentrations measured by EPA Method 9310 (ACZ Laboratories) ranged from 5.9 pCi/g to 11 pCi/g with an average concentration of 8.7 pCi/g. The location with the highest gross alpha concentration in soil was South Wash and Little Red Horse Wash. The current gross alpha

method includes contributions from all alpha emitting radionuclides in the uranium decay series, except radon-222.

- Gross beta concentrations measured by EPA Method 9310 (ACZ Laboratories) ranged from 8.4 pCi/g to 15 pCi/g with an average concentration of 10.9 pCi/g. The location with the highest gross beta concentration in soil is Little Red Horse Wash.

- Potassium-40 concentrations measured by EPA Method 901.1 (ACZ Laboratories) ranged from 11.2 pCi/g to 23.9 pCi/g with an average concentration of 17.6 pCi/g. The location with the highest potassium-40 concentration in soil is South Wash.

- Thorium-232 (via Ac-228) concentrations measured by EPA Method 901.1 (ACZ Laboratories) ranged from 0.94 pCi/g to 1.4 pCi/g with an average concentration of 1.2 pCi/g. The location with the highest concentration of thorium-232 in soil is South Wash.

- Thallium-208 concentrations measured by EPA Method 901.1 (ACZ Laboratories) ranged from 0.35 pCi/g to 0.51 pCi/g with an average concentration of 0.40 pCi/g. The location with the highest concentration of thallium-208 in soil is South Wash.

- Cesium-137 concentrations measured by EPA Method 901.1 (ACZ Laboratories) ranged from below the MDA to 0.46 pCi/g with an average concentration of 0.32 pCi/g. The location with the highest cesium-137 concentration in soil is Little Red Horse Wash.

- Total Uranium concentrations measured by Method 6020B (ACZ Laboratories) ranged from 0.65 mg/kg to 1.0 mg/kg with an average concentration of 0.83 mg/kg. The location with the highest uranium concentration in soil is Little Red Horse Wash.

The RSE and ACZ Laboratories laboratory data reports are provided in Appendix C.

3.4 Water Sampling

During the periods that ERG staff were at the site, surface water was only observed at Owl Tank and therefore no sample was collected in the South Wash.

The results for Th-232 (via Ac-228 surrogate) using EPA Method 901.1 reported high detection limits (71.3 pCi/L). Therefore, the results for Th-232 via Ac-228 using EPA Method 901.1 are not useful. Instead, isotopic thorium results using ESM 4506 are reported for Th-232. The reported Th-232 result using this method is below the detection limit of 10 pCi/L and reported as 1.64 pCi/L. The Th-232 results using EPA Method 901.1 are not reported

The results for the Owl Tank sample analyzed for radiological parameters are shown in Table 8. All but the gross alpha, gross beta, and total uranium results were less than minimum detectable concentrations.

The ACZ laboratory data reports are provided in Appendix D.

Section 4.0 Conclusions

The results presented in this operational radiological monitoring report are generally similar to those reported in “Radiological Assessment of the Canyon Mine Project (McKlveen, 1985), Supplemental Preoperational Baseline Radiological Monitoring Data for the Canyon Mine (ERG, 2017) and the Supplemental Preoperational Baseline Radiological Monitoring Data for the Pinyon Plain Mine (ERG, 2025), and represent values that are within the range of typical background conditions within the United States (NCRP, 2009).

Section 5.0 References

Canadian Nuclear Safety Commission (CNSC). Measuring Airborne Radon Progeny at Uranium Mines and Mills. Regulatory Guide G-4. June 2003.

Environmental Restoration Group, Inc. (ERG). “Supplemental Preoperational Baseline Radiological Monitoring Data for the Canyon Mine”. August 2017.

Environmental Restoration Group, Inc. (ERG). “Supplemental Preoperational Baseline Radiological Monitoring Data for the Pinyon Plain Mine”. May 2025.

McKlveen, J.W., “Radiological Assessment of the Canyon Mine Project, Kaibab National Forest, Coconino County Arizona”. July 25, 1985.

National Council on Radiation Protection and Measurements (NCRP). “NCRP Report 160, Ionizing Radiation Exposure of the Population of the United States”. 2009

United States Forest Service (USFS). “Record of Decision, Canyon Mine Proposal - Final Environmental Impact Statement Canyon Uranium Mine “. August 1986.

Tables

Table 1 – Pinyon Plain Mine, USFS Operational Radiological Monitoring

Sample Type	Number of Locations	Location	Sample Frequency	Analyses (Method)[1]
Direct Gamma	12	8 × Compass Directions around Mine Site[2] Owl Tank (center wash, north of tank) South Wash[3] Airport Tusayan Ranger Station	Quarterly	Direct Gamma, µR/hr (OSL, HPIC, and Scintillometer Micro-R meter)[4]
Radon	3	Mine Site South Wash Airport	Quarterly	Radon concentration in air (Rapidos HS track-etch detector), Radon "Working Level" (Modified-Kusnetz)
Soil	6	Owl Tank Downwash of Mine Site (South Wash) Upwash of Mine Site (NNE) Upwash of Mine Site (NNW) Litte Red Horse Wash[5] Red Horse Wash[5]	One-time Sample Event	Gross Alpha/Beta (EPA 9310), Ra-226, K-40, Tl-208, Cs-137, Th-232 via Ac-228 (EPA 901.1), Total Uranium (EPA 6020B)
Surface Water	2	Downwash of Mine Site Owl Tank	One-time Sample Event (based on availability)	Gross Alpha/Beta (EPA 900.0), K-40, Tl-208, Cs-137, and Th-232 via Ac-228 (EPA 901.1), Ra-226 (EPA 903.1), Total Uranium (EPA 200.8)

Notes:
1. Based on data presented in the FEIS, Appendix E Radiological Assessment, Appendix C, Table C.2 (Soils) analyses for Ra-226, Gross Alpha, Gross Beta, Th-232, Tl-208, K-40, and Cs-137, and Table C.3 (Surface Water) analyses for Ra-226, Gross Alpha, Gross Beta, K-40.
2. Gamma monitoring at 8 compass direction (N, NE, E, SE, S, SW, W, NW) locations approximately 1/4 mile from mine shaft.
3. New radon location added to monitoring program in 2023.
4. Based on data presented in the FEIS, Appendix E Radiological Assessment, Appendix A.
5. Little Red Horse Wash location formerly known as Red Horse Wash at US Highway 180. Big Red Horse Wash location on Arizona State Land Department lands moved “upwash” onto USFS lands and re-named Red Horse Wash.

Table 2 – OSL Badge Deployments

Monitoring Quarter	Location	Deployment	Retrieval
2025 Q1	Airport , Tusayan Ranger Station	January 6, 2025	April 8, 2025
	Owl Tank, South Wash, SE, S, SW, W, W, NW, N, NE, E	January 8, 2025	April 9, 2025
2025 Q2	Airport, Tusayan Ranger Station	April 8, 2025	July 1, 2025
	Owl Tank, South Wash, SE, S, SW, W, W, NW, N, NE, E	April 9, 2025	July 2, 2025
2025 Q3	Airport, Tusayan Ranger Station	July 1, 2025	September 30, 2025
	Owl Tank, South Wash, SE, S, SW, W, W, NW, N, NE, E	July 2, 2025	October 1, 2025
2025 Q4	Airport, Tusayan Ranger Station	September 30, 2025	January 7, 2026
	Owl Tank, South Wash, SE, S, SW, W, W, NW, N, NE, E	October 1, 2025	January 8, 2026

Table 3 – Dose Rate Measurements Using Optically Stimulated Dosimeters (OSLs)

Location	Monitoring Quarter	Days Deployed	Effective Ambient Dose (mrem/qtr)		Average Exposure Rate[3] (µrem/hr)	Comments
			(Gross)	(Net)[1]		
Tusayan Ranger Station	2025 Q1	92	36.8	27.1	13.0	
	2025 Q2	84	36.1	26.7		
	2025 Q3	91	38.0	30.2		
	2025 Q4	99	43.5	30.0		
Airport	2025 Q1	92	35.2	25.5	13.0	
	2025 Q2	84	38.2	28.8		
	2025 Q3	91	37.5	29.7		
	2025 Q4	99	43.3	29.8		
Owl Tank	2025 Q1	91	38.2	28.5	14.6	
	2025 Q2	84	40.1	30.7		
	2025 Q3	90	42.3	34.5		
	2025 Q4	100	47.7	34.2		
South Wash	2025 Q1	91	40.3	30.6	16.5	
	2025 Q2	84	44.5	35.1		
	2025 Q3	91	47.2	39.4		
	2025 Q4	LOST	LOST	LOST		
N	2025 Q1	91	37.1	27.4	13.8	
	2025 Q2	84	38.1	28.7		
	2025 Q3	91	40.8	33.0		
	2025 Q4	99	45.3	31.8		
NE	2025 Q1	91	33.7	24.0	13.4	
	2025 Q2	84	36.3	26.9		
	2025 Q3	91	41.5	33.7		
	2025 Q4	99	46.0	32.5		
E	2025 Q1	91	29.8	20.1	12.6	
	2025 Q2	84	37.6	28.2		
	2025 Q3	91	37.8	30.0		
	2025 Q4	99	45.7	32.2		
SE	2025 Q1	91	33.8	24.1	13.1	
	2025 Q2	84	37.3	27.9		
	2025 Q3	91	38.5	30.7		
	2025 Q4	99	45.5	32.0		
S	2025 Q1	91	28.7	19.0	12.0	
	2025 Q2	84	35.7	26.3		
	2025 Q3	91	38.9	31.1		
	2025 Q4	99	42.3	28.8		
SW	2025 Q1	91	35.2	25.5	13.0	
	2025 Q2	84	36.5	27.1		
	2025 Q3	91	36.0	28.2		
	2025 Q4	99	46.2	32.7		
W	2025 Q1	91	34.5	24.8	13.1	
	2025 Q2	84	37.8	28.4		
	2025 Q3	91	38.2	30.4		
	2025 Q4	99	44.8	31.3		
NW[3]	2025 Q1	91	33.6	23.8	12.5	
	2025 Q2	84	36.1	26.7		
	2025 Q3	91	37.0	29.2		
	2025 Q4	99	43.3	29.8		
Average				**28.8**	**13.2**	

Notes:

1. Net effective dose is Gross (reported) effective dose less the transit dose. Transit dose calculated by the number of days in transit multiplied by 0.2 mrem/day (average daily transit control dose for project OSL badges).
2. Average net effective dose for quarters in which badge retrieved converted to exposure rate per hour.
3. Results reflect average of NW and NW Duplicate badge analyses.

Table 4 – HPIC and Ludlum Model 19 Measurements

Location	Monitoring Quarter	HPIC Reading (µR/hr)	Model 19 Reading (µR/hr)	Average HPIC Reading (µR/hr)	Average Model 19 Reading (µR/hr)
Tusayan Ranger Station	2025 Q1	13.3	9.0	12.9	9.6
	2025 Q2	12.6	10.0		
	2025 Q3	13.0	9.5		
	2025 Q4	12.6	10.0		
Airport	2025 Q1	13.7	10.0	13.5	10.1
	2025 Q2	13.2	10.0		
	2025 Q3	14.1	10.0		
	2025 Q4	13.1	10.5		
Owl Tank	2025 Q1	14.4	13.0	14.6	13.3
	2025 Q2	14.3	13.0		
	2025 Q3	14.9	13.0		
	2025 Q4	14.6	14.0		
South Wash	2025 Q1	16.7	18.0	16.5	18.9
	2025 Q2	15.5	17.0		
	2025 Q3	17.7	20.5		
	2025 Q4	16.0	20.0		
N	2025 Q1	14.2	12.5	14.1	12.6
	2025 Q2	13.9	12.5		
	2025 Q3	14.5	12.5		
	2025 Q4	13.9	13.0		
NE	2025 Q1	13.1	12.5	13.3	12.8
	2025 Q2	13.1	12.5		
	2025 Q3	13.9	13.0		
	2025 Q4	13.2	13.0		
E	2025 Q1	12.7	11.0	12.7	11.8
	2025 Q2	12.4	11.0		
	2025 Q3	13.4	12.0		
	2025 Q4	12.5	13.0		
SE	2025 Q1	13.4	13.5	13.6	14.0
	2025 Q2	13.5	14.0		
	2025 Q3	13.9	14.0		
	2025 Q4	13.4	14.5		
S	2025 Q1	12.2	10.0	12.0	10.4
	2025 Q2	11.6	9.5		
	2025 Q3	12.2	10.0		
	2025 Q4	11.9	12.0		
SW	2025 Q1	13.0	10.5	13.0	11.0
	2025 Q2	12.8	10.0		
	2025 Q3	13.6	11.5		
	2025 Q4	12.6	12.0		
W	2025 Q1	14.2	12.0	14.0	12.4
	2025 Q2	13.7	11.5		
	2025 Q3	14.4	12.0		
	2025 Q4	13.7	14.0		
NW	2025 Q1	12.4	10.0	12.3	10.5
	2025 Q2	12.0	10.0		
	2025 Q3	12.9	11.0		
	2025 Q4	11.9	11.0		
Average				**13.5**	**12.3**

Notes:
1. Measurements taken approximately 1-m above ground surface.
2. µR/hr: microRoentgen per hour
3. Measurements made on the day beginning the quarterly period.

Table 5 – Radon-222 Concentration Results

Location	Monitoring Quarter	Days Deployed	Radon-222 Concentration (pCi/L)	Radon-222 Uncertainty (pCi/L)	Average Radon-222 Concentration (pCi/L)	Comments
Airport	2025 Q1	92	0.19	*0.11*	0.19	
	2025 Q2	84	< 0.19	n/a		
	2025 Q3	91	0.11	0.11		
	2025 Q4	99	0.27	*0.11*		
South Wash	2025 Q1	91	0.57	*0.14*	0.44	
	2025 Q2	84	*< 0.16*	*n/a*		
	2025 Q3	91	0.49	0.14		
	2025 Q4	99	0.54	0.14		
Mine Site	2025 Q1	91	0.43	*0.11*	0.77	
	2025 Q2	84	< 0.24	n/a		
	2025 Q3	91	1.2	0.22		
	2025 Q4	99	1.2	*0.19*		
Average					**0.47**	

Notes:
1. Where radon concentration is less than the detection limit, the detection limit is used in the average.
2. Uncertainty is two standard deviations

Table 6 – Radon Working Level Measurements (Modified Kusnetz Method)

Location	Monitoring Quarter	Date	Radon-222 Progeny Concentration (mWL)	Average Radon-222 Progeny Concentration (mWL)
Airport	2025 Q1	1/6/2025	3.10	3.9
	2025 Q2	4/8/2025	3.90	
	2025 Q3	7/1/2025	4.90	
	2025 Q4	9/30/2025	3.50	
South Wash	2025 Q1	1/8/2025	3.20	4.4
	2025 Q2	4/9/2025	4.80	
	2025 Q3	7/2/2025	4.70	
	2025 Q4	10/1/2025	4.80	
Mine Site	2025 Q1	1/8/2025	3.20	4.4
	2025 Q2	4/9/2025	4.90	
	2025 Q3	7/2/2025	4.70	
	2025 Q4	10/3/2025	4.80	
Average				**4.2**

Notes:
1. mWL = milliWorking Level
2. Highlighted values are results that were less than measurement MDC, so MDC reported.

Table 7 - Radiological Constituent Concentrations in Soil

Location	Ra-226 (pCi/g)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)	K-40 (pCi/g)	Tl-208 (pCi/g)	Cs-137 (pCi/g)	Th-232 (pCi/g)	Total Uranium (mg/Kg)
Owl Tank	1.06	5.9	8.7	11.5	0.39	0.18	1.15	0.76
South Wash	1.30	11	14	23.9	0.51	0.22	1.39	0.98
NNE	1.02	6.5	8.4	18.7	0.39	0.21	1.26	0.69
NNW	1.51	9.6	9.3	16.4	0.37	0.38	0.94	0.84
Little Red Horse Wash	1.08	11	15	23.8	0.35	0.46	1.19	1.04
Red Horse Wash	0.99	8.4	9.8	11.2	0.38	0.45	1.25	0.65
Average	**1.16**	**8.7**	**10.9**	**17.6**	**0.40**	**0.32**	**1.20**	**0.83**

Notes:
Gross Alpha/Beta by EPA Method 9310
Ra-226, K-40, Tl-208, Cs-137, and Th-232 (via Ac-228) by EPA Method 901.1.
Total Uranium by EPA Method 6020B
Cs-137 NNE reported as 0.06 pCi/g with LLD = 0.21 pCi/g. Result is less than LLD. LLD value is reported and included in calculation of average.
Analysis for Ra-226 performed by Radiation Safety Engineers (Chandler, AZ). Remaining analyses performed by ACZ Labs (Steamboat Springs, CO).

Table 8 – Radiological Constituent Concentrations in Surface Water

Location	Ra-226 (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)	K-40 (pCi/L)	Tl-208 (pCi/L)	Cs-137 (pCi/L)	Th-232 (pCi/L)	Total U (mg/L)
Owl Tank	0.12	5.1	13	57.7	-2.61	2.91	1.64	0.003

Notes:
Gross Alpha/Beta by EPA Method E900.0
K-40, Tl-208, Cs-137, Ac-228 (Th-232 surrogate) by EPA Method 901.1. MDCs - K-40 = 310 pCi/L,Tl-208 = 1.34 pCi/l, Cs-137 = 20.3 pCi/L, and Ac-228 = 71.3 pCi/L.
Ra-226 by EPA Method 903.1. LLD = 0.23 pCi/L
Total Uranium by EPA Method 200.8. MDL = 0.0005 mg/L
Total Thorium by ESM 4506. LLD for Th-232 = 10 pCi/L.

Figures

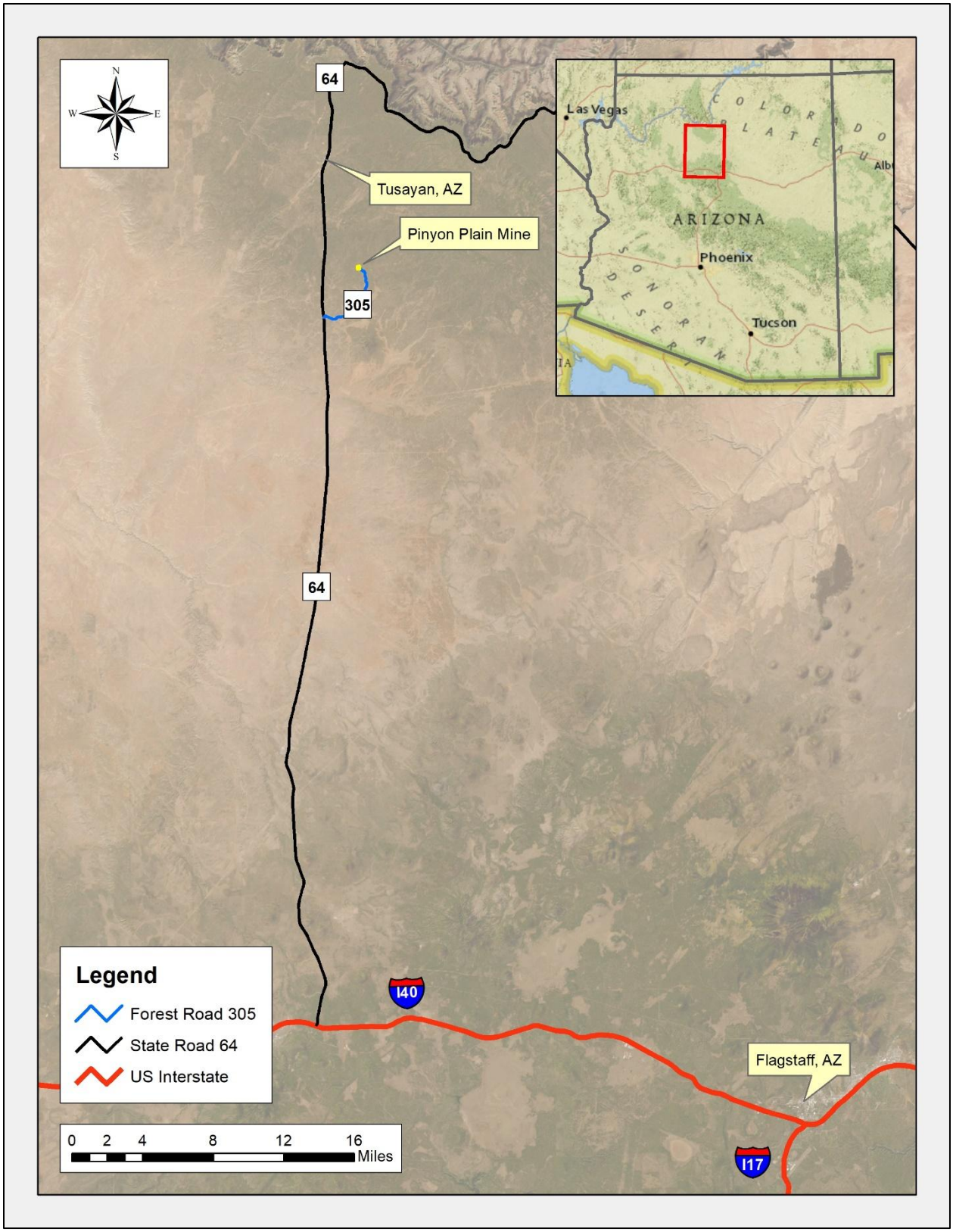

Figure 1 – Pinyon Plain Mine Regional Setting

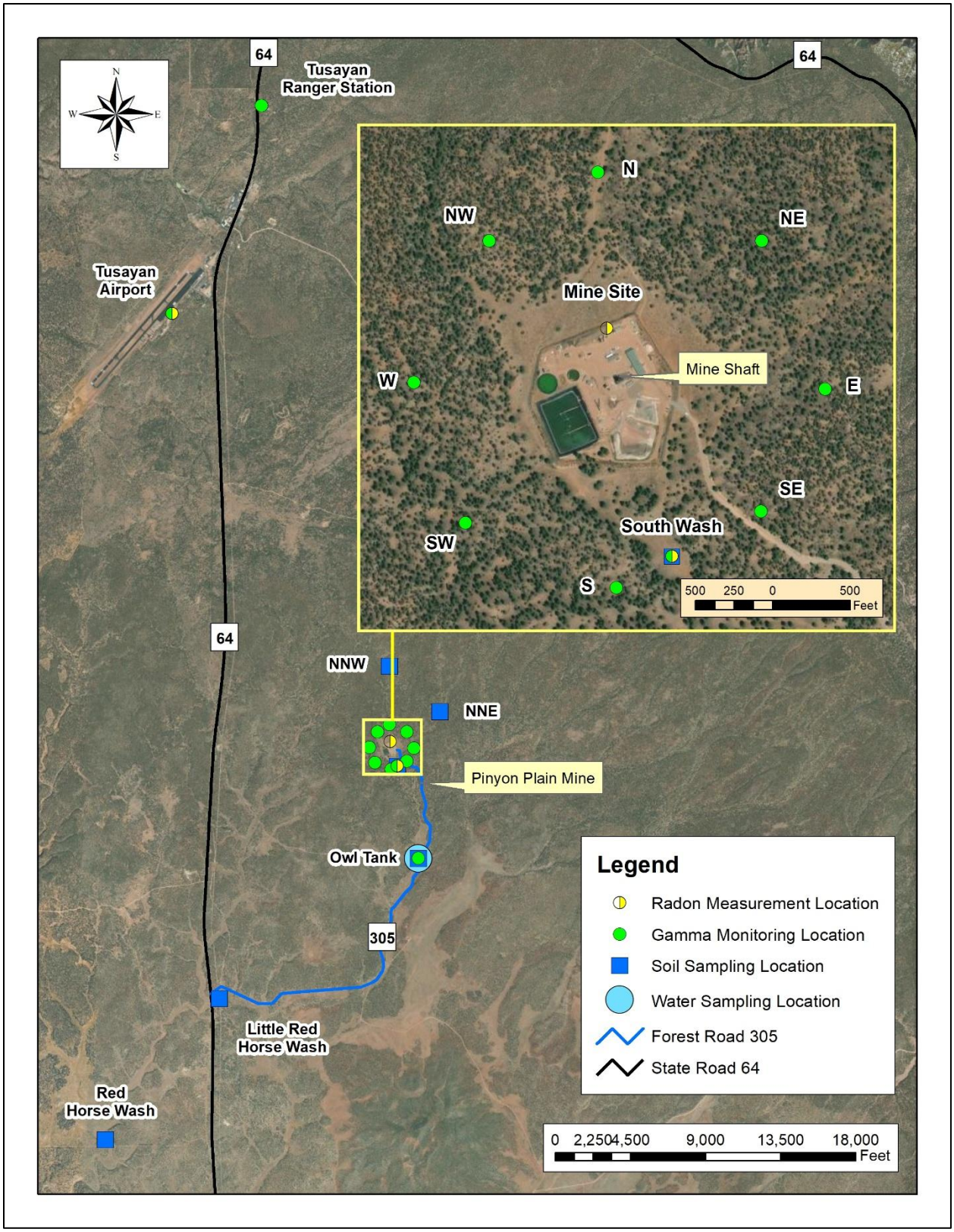

Figure 2 – Radiological Sampling Locations for the Pinyon Plain Mine

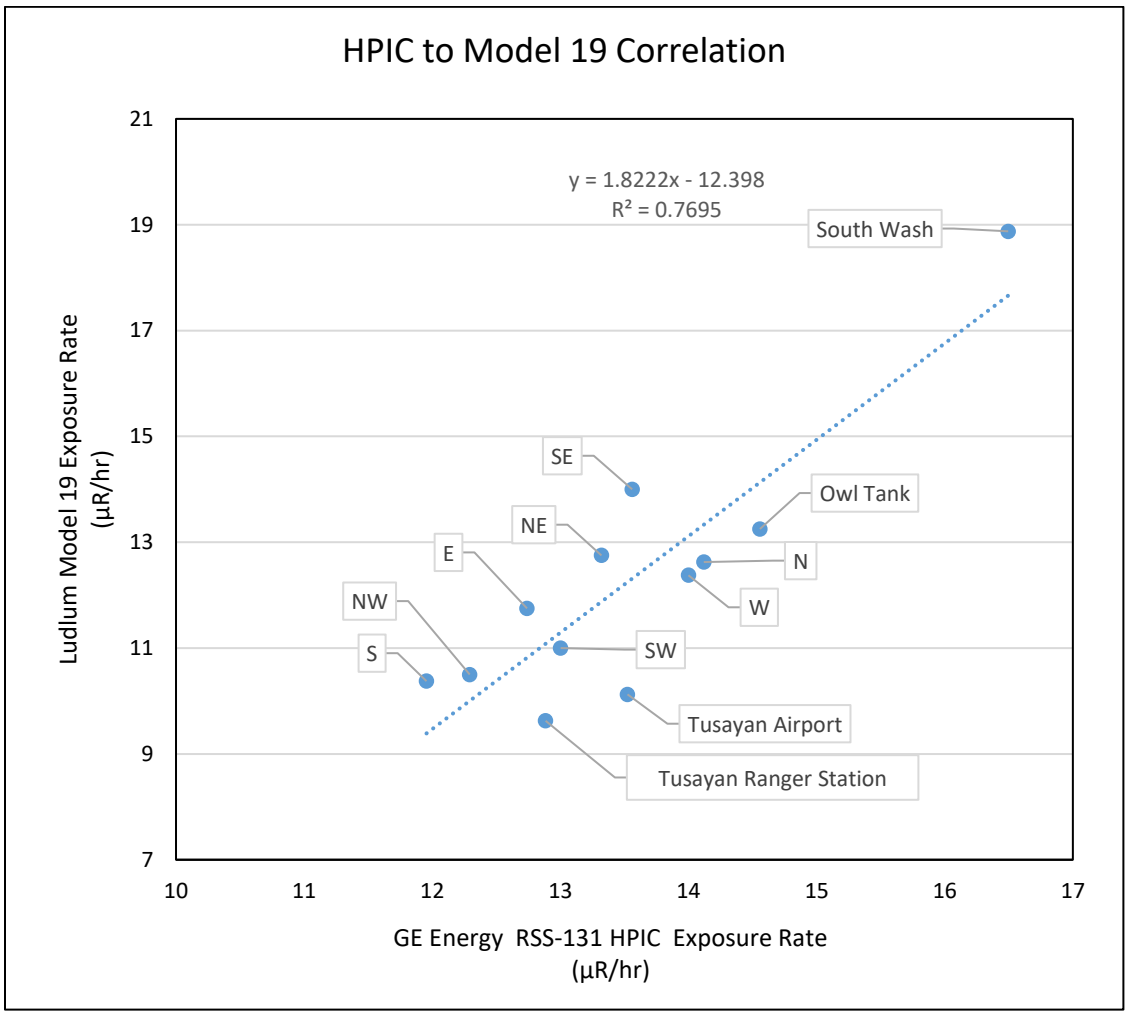

Figure 3 – HPIC to Model 19 Correlation

Appendix A

OSL (Gamma) Laboratory Data

ENVIRO RESTORATION GRP
STE 150 / NORTHEAST
8809 WASHINGTON ST
ALUQUERQUE, NM 87113

Report Date (YYYY-MM-DD)	2025-04-22
Page	1 of 1
Dosimeter Received	2025-04-15
QC Release	LCA
Analytical Work Order	2510400402

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Technical: (800) 438-3241

Environmental Dosimetry Report

Account : 716005 Subaccount : 1448929 Series: X9

Location ID Number	Dosimeter Type	Identifier (Client Supplied)	Exposure (Ambient Dose mrem)		Net Cumulative Totals (mrem)			Inception Date (YYYY-MM)	Serial Number
			Gross	Net	Quarter to Date	Year to Date	Permanent		
Monitoring Period:			2025-01-01 to	2025-03-31	Q1	2025			
00000	V03NH	Deploy Control						2016-10	EX00082153W
	V03NH	Control Dose Used	40.5						
00025	V03NH	NORTH	37.1	-3.5				2016-10	EX00059771L
00026	V03NH	NORTHEAST	33.7	-6.8				2016-10	EX00080467J
00027	V03NH	EAST	29.8	-10.7				2016-10	EX00008558O
00028	V03NH	SOUTHEAST	33.8	-6.7				2016-10	EX00067393N
00029	V03NH	SOUTH	28.7	-11.8				2016-10	EX00059950L
00030	V03NH	SOUTHWEST	35.2	-5.4				2016-10	EX00070554Q
00031	V03NH	WEST	34.5	-6.0				2016-10	EX00099152P
00032	V03NH	NORTHWEST	31.8	-8.7				2016-10	EX00091498B
00033	V03NH	SOUTH WASH	40.3	-0.2	-0.2	-0.2	2.2	2016-10	EX00107717Q
00034	V03NH	OWL TANK	38.2	-2.4	-2.4	-2.4	-3.9	2016-10	EX001014049
00035	V03NH	AIRPORT	35.2	-5.3	-5.3	-5.3	-21.5	2016-10	EX00064245T
00036	V03NH	TUSAYAN	36.8	-3.7	-3.7	-3.7	-39.4	2016-10	EX001011847
00037	V03NH		35.3	-5.2	-5.2	-5.2	-56.4	2016-10	EX00065604Q

General Information

The Environmental dosimeter is for both indoor and outdoor use, and is designed to withstand extremes of temperature, humidity, precipitation, and other environmental conditions. InLight dosimeters are built on an assembly of a case component with copper and plastic filters along with a four-positioned aluminum oxide detector slide component. Both the case and slide are uniquely bar coded with serial numbers for chain of custody and sensitivity identification. The InLight dosimeter is sealed within a heavy-duty vinyl tamper resistant pouch that has multiple slots to permit several methods of attachment for easy deployment.

Technical Specifications

- Fully meets ANSI N545-1977, NRC Regulatory Guide 4.13, and HPS Draft Standard N13.29 for environmental dosimetry.

- Minimum Detectable Dose - nominally 0.1 mrem (1 μSv), reporting to tenths of a millirem ambient dose equivalent.

- Detection Capabilities:

  Photons (x and gamma rays) with energies above 15 keV nominally: 0.1 mrem to 1000 rem (1 μSv to 10 Sv).

  Beta particles with energies greater than approximately 500 keV average energy: 20 mrem to 1000 rem (200 μSv to 10 Sv).

Control Dosimeter

A minimum of two control dosimeters are provided per shipment. The first is for field deployment/retrieval used to measure exposure during shipment and placement/collection. The second is for transit used to measure exposure during shipment only. Both control dosimeters assigned to a shipment should accompany that shipment both from and to LANDAUER. Do not use the control dosimeters for any other purpose. Store dosimeters away from radiation when not in use along with the control dosimeter(s) of the same use date.

Dosimetry reports show gross and net dosage. Gross dosage includes the dosage to the controls. LANDAUER's background subtraction protocol is:

1. Subtract the deployment/retrieval control; or if not returned to LANDAUER
2. Subtract the transit control.

Environmental Dosimetry Report Information

Location ID Number

Unique number assigned by LANDAUER.

Dosimeter Type

Dosimeter Type	Analytical Sensitivity	Minimum Detectable Dose Level (mrem)
V03NH	High	0.1
V03NN	Standard	5.0
V06NH	High	0.1
V06NN	Standard	5.0

Identifier

Location name supplied by customer.

Exposure Ambient Dose (mrem)

Gross: Gross exposure before control subtraction.
Net: Net exposure after control subtraction.

Net Cumulative Totals (mrem)

Quarter to Date, Year to Date, and Permanent are accumulated net ambient exposure.

Inception Date

The date LANDAUER began keeping dosimeter records for a given dosimeter for a monitoring location on the current account.

Serial Number

Dosimeter serial number.

U.S. Patents

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Report Date (YYYY-MM-DD)	2025-07-18
Page	1 of 1
Dosimeter Received	2025-07-11
QC Release	LCA
Analytical Work Order	2519001160

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Environmental Dosimetry Report

Account : 716005 Subaccount : 1448929 Series: X9

Location ID Number	Dosimeter Type	Identifier (Client Supplied)	Exposure (Ambient Dose mrem)		Net Cumulative Totals (mrem)			Inception Date (YYYY-MM)	Serial Number
			Gross	Net	Quarter to Date	Year to Date	Permanent		
Monitoring Period:			2025-04-01 to	2025-06-30	Q2	2025			
00000	V03NH	Deploy Control						2016-10	EX00063643Q
	V03NH	Control Dose Used	39.7						
00025	V03NH	NORTH	38.1	-1.7				2016-10	EX00063565M
00026	V03NH	NORTHEAST	36.3	-3.5				2016-10	EX00074106V
00027	V03NH	EAST	37.6	-2.2				2016-10	EX001030467
00028	V03NH	SOUTHEAST	37.3	-2.4				2016-10	EX000610137
00029	V03NH	SOUTH	35.7	-4.1				2016-10	EX00028622X
00030	V03NH	SOUTHWEST	36.5	-3.2				2016-10	EX00099870D
00031	V03NH	WEST	37.8	-2.0				2016-10	EX00091757B
00032	V03NH	NORTHWEST	36.4	-3.3				2016-10	EX00099600O
00033	V03NH	SOUTH WASH	44.5	4.8	4.8	4.6	7.0	2016-10	EX00059617H
00034	V03NH	OWL TANK	40.1	0.4	0.4	-2.0	-3.5	2016-10	EX00006131E
00035	V03NH	AIRPORT	38.2	-1.5	-1.5	-6.8	-23.0	2016-10	EX00090028R
00036	V03NH	TUSAYAN	36.1	-3.7	-3.7	-7.4	-43.1	2016-10	EX00107724V
00037	V03NH		35.7	-4.1	-4.1	-9.3	-60.5	2016-10	EX00082171Y

General Information

The Environmental dosimeter is for both indoor and outdoor use, and is designed to withstand extremes of temperature, humidity, precipitation, and other environmental conditions. InLight dosimeters are built on an assembly of a case component with copper and plastic filters along with a four-positioned aluminum oxide detector slide component. Both the case and slide are uniquely bar coded with serial numbers for chain of custody and sensitivity identification. The InLight dosimeter is sealed within a heavy-duty vinyl tamper resistant pouch that has multiple slots to permit several methods of attachment for easy deployment.

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2. Subtract the transit control.

Environmental Dosimetry Report Information

Location ID Number

Unique number assigned by LANDAUER.

Dosimeter Type

Dosimeter Type	Analytical Sensitivity	Minimum Detectable Dose Level (mrem)
V03NH	High	0.1
V03NN	Standard	5.0
V06NH	High	0.1
V06NN	Standard	5.0

Identifier

Location name supplied by customer.

Exposure Ambient Dose (mrem)

Gross: Gross exposure before control subtraction.
Net: Net exposure after control subtraction.

Net Cumulative Totals (mrem)

Quarter to Date, Year to Date, and Permanent are accumulated net ambient exposure.

Inception Date

The date LANDAUER began keeping dosimeter records for a given dosimeter for a monitoring location on the current account.

Serial Number

Dosimeter serial number.

U.S. Patents

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Report Date (YYYY-MM-DD)	2025-10-13
Page	1 of 1
Dosimeter Received	2025-10-08
QC Release	LCA
Analytical Work Order	2527901307

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Environmental Dosimetry Report

Account : 716005 Subaccount : 1448929 Series: X9

Location ID Number	Dosimeter Type	Identifier (Client Supplied)	Exposure (Ambient Dose mrem)		Net Cumulative Totals (mrem)			Inception Date (YYYY-MM)	Serial Number
			Gross	Net	Quarter to Date	Year to Date	Permanent		
Monitoring Period:			2025-07-01 to	2025-09-30	Q3	2025			
00000	V03NH	Deploy Control						2016-10	EX00095961E
	V03NH	Control Dose Used	43.8						
00025	V03NH	NORTH	40.8	-3.0				2016-10	EX00067349G
00026	V03NH	NORTHEAST	41.5	-2.3				2016-10	EX001021581
00027	V03NH	EAST	37.8	-6.0				2016-10	EX00109434Y
00028	V03NH	SOUTHEAST	38.5	-5.3				2016-10	EX00088491K
00029	V03NH	SOUTH	38.9	-4.9				2016-10	EX00093613N
00030	V03NH	SOUTHWEST	36.0	-7.8				2016-10	EX00094832I
00031	V03NH	WEST	38.2	-5.7				2016-10	EX00094526H
00032	V03NH	NORTHWEST	39.6	-4.2				2016-10	EX00095565E
00033	V03NH	SOUTH WASH	47.2	3.4	3.4	8.0	10.4	2016-10	EX00109647N
00034	V03NH	OWL TANK	42.3	-1.5	-1.5	-3.4	-5.0	2016-10	EX00097229E
00035	V03NH	AIRPORT	37.5	-6.3	-6.3	-13.1	-29.3	2016-10	EX00109299M
00036	V03NH	TUSAYAN	38.0	-5.8	-5.8	-13.2	-48.9	2016-10	EX00009783Q
00037	V03NH		34.3	-9.5	-9.5	-18.8	-70.1	2016-10	EX001051380

General Information

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- Minimum Detectable Dose - nominally 0.1 mrem (1 μSv), reporting to tenths of a millirem ambient dose equivalent.

- Detection Capabilities:

  Photons (x and gamma rays) with energies above 15 keV nominally: 0.1 mrem to 1000 rem (1 μSv to 10 Sv).

  Beta particles with energies greater than approximately 500 keV average energy: 20 mrem to 1000 rem (200 μSv to 10 Sv).

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Dosimetry reports show gross and net dosage. Gross dosage includes the dosage to the controls. LANDAUER's background subtraction protocol is:

1. Subtract the deployment/retrieval control; or if not returned to LANDAUER
2. Subtract the transit control.

Environmental Dosimetry Report Information

Location ID Number

Unique number assigned by LANDAUER.

Dosimeter Type

Dosimeter Type	Analytical Sensitivity	Minimum Detectable Dose Level (mrem)
V03NH	High	0.1
V03NN	Standard	5.0
V06NH	High	0.1
V06NN	Standard	5.0

Identifier

Location name supplied by customer.

Exposure Ambient Dose (mrem)

Gross: Gross exposure before control subtraction.
Net: Net exposure after control subtraction.

Net Cumulative Totals (mrem)

Quarter to Date, Year to Date, and Permanent are accumulated net ambient exposure.

Inception Date

The date LANDAUER began keeping dosimeter records for a given dosimeter for a monitoring location on the current account.

Serial Number

Dosimeter serial number.

U.S. Patents

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ENVIRO RESTORATION GRP
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ALUQUERQUE, NM 87113

Report Date (YYYY-MM-DD)	2026-02-17
Page	1 of 1
Dosimeter Received	2026-02-10
QC Release	DWA
Analytical Work Order	2603303632

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Technical: (800) 438-3241

Environmental Dosimetry Report

Account : 716005 Subaccount : 1448929 Series: X9

Location ID Number	Dosimeter Type	Identifier (Client Supplied)	Exposure (Ambient Dose mrem)		Net Cumulative Totals (mrem)			Inception Date (YYYY-MM)	Serial Number
			Gross	Net	Quarter to Date	Year to Date	Permanent		
Monitoring Period:			2025-10-01 to	2025-12-31	Q4	2025			
00000	V03NH	Deploy Control						2016-10	EX00086348F
	V03NH	Control Dose Used	56.0						
00025	V03NH	NORTH	45.3	-10.7				2016-10	EX00100576X
00026	V03NH	NORTHEAST	46.0	-10.0				2016-10	EX00063176R
00027	V03NH	EAST	45.7	-10.2				2016-10	EX000959862
00028	V03NH	SOUTHEAST	45.5	-10.4				2016-10	EX00059396H
00029	V03NH	SOUTH	42.3	-13.7				2016-10	EX000640209
00030	V03NH	SOUTHWEST	46.2	-9.8				2016-10	EX00070225X
00031	V03NH	WEST	44.8	-11.2				2016-10	EX00068177K
00032	V03NH	NORTHWEST	44.6	-11.4				2016-10	EX00097003W
00034	V03NH	OWL TANK	47.7	-8.3	-8.3	-11.7	-13.3	2016-10	EX00097337F
00035	V03NH	AIRPORT	43.3	-12.7	-12.7	-25.9	-42.0	2016-10	EX00091694F
00036	V03NH	TUSAYAN	43.5	-12.5	-12.5	-25.7	-61.4	2016-10	EX00082333U
00037	V03NH		41.9	-14.1	-14.1	-32.9	-84.2	2016-10	EX00095710P

General Information

The Environmental dosimeter is for both indoor and outdoor use, and is designed to withstand extremes of temperature, humidity, precipitation, and other environmental conditions. InLight dosimeters are built on an assembly of a case component with copper and plastic filters along with a four-positioned aluminum oxide detector slide component. Both the case and slide are uniquely bar coded with serial numbers for chain of custody and sensitivity identification. The InLight dosimeter is sealed within a heavy-duty vinyl tamper resistant pouch that has multiple slots to permit several methods of attachment for easy deployment.

Technical Specifications

- Fully meets ANSI N545-1977, NRC Regulatory Guide 4.13, and HPS Draft Standard N13.29 for environmental dosimetry.

- Minimum Detectable Dose - nominally 0.1 mrem (1 μSv), reporting to tenths of a millirem ambient dose equivalent.

- Detection Capabilities:

  Photons (x and gamma rays) with energies above 15 keV nominally: 0.1 mrem to 1000 rem (1 μSv to 10 Sv).

  Beta particles with energies greater than approximately 500 keV average energy: 20 mrem to 1000 rem (200 μSv to 10 Sv).

Control Dosimeter

A minimum of two control dosimeters are provided per shipment. The first is for field deployment/retrieval used to measure exposure during shipment and placement/collection. The second is for transit used to measure exposure during shipment only. Both control dosimeters assigned to a shipment should accompany that shipment both from and to LANDAUER. Do not use the control dosimeters for any other purpose. Store dosimeters away from radiation when not in use along with the control dosimeter(s) of the same use date.

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2. Subtract the transit control.

Environmental Dosimetry Report Information

Location ID Number

Unique number assigned by LANDAUER.

Dosimeter Type

Dosimeter Type	Analytical Sensitivity	Minimum Detectable Dose Level (mrem)
V03NH	High	0.1
V03NN	Standard	5.0
V06NH	High	0.1
V06NN	Standard	5.0

Identifier

Location name supplied by customer.

Exposure Ambient Dose (mrem)

Gross: Gross exposure before control subtraction.
Net: Net exposure after control subtraction.

Net Cumulative Totals (mrem)

Quarter to Date, Year to Date, and Permanent are accumulated net ambient exposure.

Inception Date

The date LANDAUER began keeping dosimeter records for a given dosimeter for a monitoring location on the current account.

Serial Number

Dosimeter serial number.

U.S. Patents

6,316,782; 6,127,685; 5,892,234

LANDAUER, Inc.
2 Science Road
Glenwood, Illinois 60425-1586
landauer.com
Telephone: (708) 755-7000
Facsimile: (708) 755-7016
Customer Service: (800) 323-8830
Technical: (800) 438-3241

LANDAUER®

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Appendix B

Radon Laboratory Results

radonova
The global leader in radon measurement

REPORT NUMBER
7861807:1

REPORT DATE
04/29/2025

REPORT PAGE
1 of 2

PRINT DATE
04/29/2025

OWN ID
N/A

BY
ERG, Inc

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed alpha-track detector (Rapidos®) following the measurement protocols given by AARST/ANSI.

The detector(s) arrived to Radonova Laboratories **04/15/2025**.
They were measured **04/23/2025**.

Test data have been given by Sam Morley

Property data and address

MEASURE SITE ADDRESS
VWM3+PF
Tusayan AZ 86023

BUILDING ID

TRANSIT DETECTOR 1:
*686354 (14 ± 11 pCi*days/l)*

TRANSIT DETECTOR 2:
*755268 (9 ± 9 pCi*days/l)*

TRANSIT DETECTOR 3:
*584346 (8 ± 9 pCi*days/l)*

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
755781-2 [Rapidos®]	*01/06/2025 – 04/08/2025*	*Airport*	*Out-door*	0.19 ± 0.11 pCi/L
704571-9 [Rapidos®]	*01/08/2025 – 04/09/2025*	*South Wash*	*Out-door*	0.57 ± 0.14 pCi/L
554070-3 [Rapidos®]	*01/08/2025 – 04/09/2025*	*Onsite*	*Out-door*	0.43 ± 0.11 pCi/L

Comment to the results

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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SWEDAC ACKREDITERING
Accred. no. 1489
Testing
ISO/IEC 17025

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RADONOVA INC.
1 EAST 22nd STREET, SUITE 200
LOMBARD, IL 60148
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in the ANSI/AARST protocols. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later counted in a microscope in order to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories (P.O. Box 6522, SE-751 38 UPPSALA, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. NRPP Licenses: 107831 AL, 107830 RT

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 4.0 ± 0.5 pCi/L means that the radon concentration is most likely contained in the range 3.5 - 4.5 pCi/L. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in pCi*days/L will be reported. The reported measured values are related to the detectors as received by Radonova Laboratories. Detector deployment is not performed by Radonova Laboratories. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories by the end user. The presented result applies only to the sample tested as received by the laboratory.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Measurement method versions used when the report was created

ANSI/AARST MAH-2023, Protocol for Conducting Measurements of Radon and Radon Decay Products in Homes
ANSI/AARST MA-MFLB-2023, Protocol for Measurements of Radon in Multifamily, School, Commercial and Mixed-Use Buildings

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories hereby certifies that the measurement procedures follows the guidance in accordance with the ANSI/AARST Measurement Protocols and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.

Certification no:

107831-AL, 107830-RMP, NRSB ARL1904, NY ELAP ID: 12042,

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LOMBARD, IL 60148
331.814.2200, help@radonova.com

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REPORT NUMBER
7999873:1

REPORT DATE
07/17/2025

PRINT DATE
07/17/2025

OWN ID
N/A

BY
ERG, Inc

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed alpha-track detector (Rapidos®) following the measurement protocols given by AARST/ANSI.

The detector(s) arrived to Radonova Laboratories **07/11/2025**.
They were measured **07/16/2025**.

Test data have been given by Sam Morley

Property data and address

MEASURE SITE ADDRESS
Pinyon Plain
Tusayan 86023

BUILDING ID

TRANSIT DETECTOR 1:
*424123 (20 ± 9 pCi*days/l)*

TRANSIT DETECTOR 2:
*554711 (225 ± 34 pCi*days/l)*

TRANSIT DETECTOR 3:
*225180 (12 ± 9 pCi*days/l)*

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
490853-9 [Rapidos®]	*04/08/2025 – 07/01/2025*	*Airport*	*Out-door*	< 0.19 pCi/L
828439-0 [Rapidos®]	*04/09/2025 – 07/02/2025*	*South Wash*	*Out-door*	< 0.16 pCi/L
646388-9 [Rapidos®]	*04/09/2025 – 07/02/2025*	*Mine Site*	*Out-door*	< 0.24 pCi/L

Comment to the results

Steve Leslie (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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RADONOVA INC.
1 EAST 22nd STREET, SUITE 200
LOMBARD, IL 60148
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in the ANSI/AARST protocols. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later counted in a microscope in order to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories (P.O. Box 6522, SE-751 38 UPPSALA, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. NRPP Licenses: 107831 AL, 107830 RT

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 4.0 ± 0.5 pCi/L means that the radon concentration is most likely contained in the range 3.5 - 4.5 pCi/L. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in pCi*days/L will be reported. The reported measured values are related to the detectors as received by Radonova Laboratories. Detector deployment is not performed by Radonova Laboratories. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories by the end user. The presented result applies only to the sample tested as received by the laboratory.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Measurement method versions used when the report was created

ANSI/AARST MAH-2023, Protocol for Conducting Measurements of Radon and Radon Decay Products in Homes
ANSI/AARST MA-MFLB-2023, Protocol for Measurements of Radon in Multifamily, School, Commercial and Mixed-Use Buildings

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories hereby certifies that the measurement procedures follows the guidance in accordance with the ANSI/AARST Measurement Protocols and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.

Certification no:

107831-AL, 107830-RMP, NRSB ARL1904, NY ELAP ID: 12042,

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LOMBARD, IL 60148
331.814.2200, help@radonova.com

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REPORT NUMBER
8031105:1

REPORT DATE
10/17/2025

REPORT PAGE
1 of 2

PRINT DATE
10/17/2025

OWN ID
N/A

BY
ERG, Inc

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed alpha-track detector (Rapidos®) following the measurement protocols given by AARST/ANSI.

The detector(s) arrived to Radonova Laboratories **10/07/2025**.
They were measured **10/13/2025**.

Test data have been given by Morley/Farr

Property data and address

MEASURE SITE ADDRESS
8809 E. Washington Street NE, Suite 150
ALBUQUERQUE NM 87113

BUILDING ID

TRANSIT DETECTOR 1:
*113157 (10 ± 9 pCi*days/l)*

TRANSIT DETECTOR 2:
*591206 (7 ± 9 pCi*days/l)*

TRANSIT DETECTOR 3:
*450690 (11 ± 9 pCi*days/l)*

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
618119-2 [Rapidos®]	*07/01/2025 – 09/30/2025*	*Airport*	*Out-door*	0.11 ± 0.11 pCi/L
747221-0 [Rapidos®]	*07/02/2025 – 10/01/2025*	*South Wash*	*Out-door*	0.49 ± 0.14 pCi/L
299396-2 [Rapidos®]	*07/02/2025 – 10/01/2025*	*Mine SIte*	*Out-door*	1.2 ± 0.22 pCi/L

Comment to the results

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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RADONOVA INC.
1 EAST 22nd STREET, SUITE 200
LOMBARD, IL 60148
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in the ANSI/AARST protocols. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later counted in a microscope in order to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories (P.O. Box 6522, SE-751 38 UPPSALA, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. NRPP Licenses: 107831 AL, 107830 RT

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 4.0 ± 0.5 pCi/L means that the radon concentration is most likely contained in the range 3.5 - 4.5 pCi/L. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in pCi*days/L will be reported. The reported measured values are related to the detectors as received by Radonova Laboratories. Detector deployment is not performed by Radonova Laboratories. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories by the end user. The presented result applies only to the sample tested as received by the laboratory.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Measurement method versions used when the report was created

ANSI/AARST MAH-2023, Protocol for Conducting Measurements of Radon and Radon Decay Products in Homes
ANSI/AARST MA-MFLB-2023, Protocol for Measurements of Radon in Multifamily, School, Commercial and Mixed-Use Buildings

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories hereby certifies that the measurement procedures follows the guidance in accordance with the ANSI/AARST Measurement Protocols and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.

Certification no:

107831-AL, 107830-RT, NRSB ARL1904, NY ELAP ID: 12042,

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Accred. no. 1489
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LOMBARD, IL 60148
331.814.2200, help@radonova.com

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REPORT NUMBER
8106241:1

REPORT DATE
01/20/2026

REPORT PAGE
1 of 2

PRINT DATE
01/20/2026

OWN ID
N/A

BY
ERG, Inc

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed alpha-track detector (Rapidos®) following the measurement protocols given by AARST/ANSI.

The detector(s) arrived to Radonova Laboratories **01/14/2026**.
They were measured **01/20/2026**.

Test data have been given by CFarr

Property data and address

MEASURE SITE ADDRESS
8809 E. Washington Street NE, Suite 150
ALBUQUERQUE NM 87113

BUILDING ID

TRANSIT DETECTOR 1:
*285305 (11 ± 11 pCi*days/l)*

TRANSIT DETECTOR 2:
*565950 (17 ± 11 pCi*days/l)*

TRANSIT DETECTOR 3:
*664539 (10 ± 9 pCi*days/l)*

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
667436-0 [Rapidos®]	*09/30/2025 – 01/07/2026*	*AIRPORT*	*Out-door*	0.27 ± 0.11 pCi/L
414828-4 [Rapidos®]	*10/01/2025 – 01/08/2026*	*SOUTH WASH*	*Out-door*	0.54 ± 0.14 pCi/L
285582-3 [Rapidos®]	*10/01/2025 – 01/08/2026*	*MINE SITE*	*Out-door*	1.2 ± 0.19 pCi/L

Comment to the results

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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RADONOVA INC.
1 EAST 22nd STREET, SUITE 200
LOMBARD, IL 60148
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in the ANSI/AARST protocols. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later counted in a microscope in order to determine the radon exposure.

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Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 4.0 ± 0.5 pCi/L means that the radon concentration is most likely contained in the range 3.5 - 4.5 pCi/L. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in pCi*days/L will be reported. The reported measured values are related to the detectors as received by Radonova Laboratories. Detector deployment is not performed by Radonova Laboratories. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories by the end user. The presented result applies only to the sample tested as received by the laboratory.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Measurement method versions used when the report was created

ANSI/AARST MAH-2023, Protocol for Conducting Measurements of Radon and Radon Decay Products in Homes
ANSI/AARST MA-MFLB-2023, Protocol for Measurements of Radon in Multifamily, School, Commercial and Mixed-Use Buildings

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories hereby certifies that the measurement procedures follows the guidance in accordance with the ANSI/AARST Measurement Protocols and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.

Certification no:

107831-AL, 107830-RT, NRSB ARL1904, NY ELAP ID: 12042,

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Accred. no. 1489
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ISO/IEC 17025

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1 EAST 22nd STREET, SUITE 200
LOMBARD, IL 60148
331.814.2200, help@radonova.com

Appendix C

Soil Sample Laboratory Results

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

December 04, 2025

Report to:
Chuck Farr
Environmental Restoration Group
8809 Washington St.
Suite 150
Albuquerque, NM 87113

Bill to:
Accounts Payable
Environmental Restoration Group
8809 Washington St. NW
Suite 150
Albuquerque, NM 87113

Project ID:
ACZ Project ID: L97533

Chuck Farr:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 06, 2025. This project has been assigned to ACZ's project number, L97533. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L97533. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after January 03, 2026. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Mark McNeal

Mark McNeal has reviewed and approved this report.

Environmental Restoration Group
Project ID:
Sample ID: RED HORSE WASH

ACZ Sample ID: ***L97533-01***
Date Sampled: *09/30/25 15:50*
Date Received: *10/06/25*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Uranium, total (3050)	EPA 6020B	505	0.647		*	mg/Kg	0.0505	0.253	10/15/25 18:22	jrj

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	D2216-80	1	88.6		*	%	0.1	0.5	10/08/25 22:10	grw

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				10/08/25 8:21	jsa
Digestion - Hot Plate	EPA 3050B				*				10/10/25 14:13	clr
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2				*				10/09/25 7:50	jsa

Arizona license number: AZ0102

Environmental Restoration Group
Project ID:
Sample ID: LITTLE RED HORSE WASH

ACZ Sample ID: ***L97533-02***
Date Sampled: *09/30/25 16:20*
Date Received: *10/06/25*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Uranium, total (3050)	EPA 6020B	515	1.04		*	mg/Kg	0.0515	0.258	10/15/25 18:27	jrj

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	D2216-80	1	87.0		*	%	0.1	0.5	10/08/25 23:38	grw

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				10/08/25 8:23	jsa
Digestion - Hot Plate	EPA 3050B				*				10/10/25 14:32	clr
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2				*				10/09/25 7:56	jsa

Arizona license number: AZ0102

ACZ **Laboratories, Inc.**
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Environmental Restoration Group
Project ID:
Sample ID: OWL TANK

ACZ Sample ID: ***L97533-03***
Date Sampled: *10/01/25 07:40*
Date Received: *10/06/25*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Uranium, total (3050)	EPA 6020B	510	0.756		*	mg/Kg	0.051	0.255	10/15/25 18:29	jrj

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	D2216-80	1	87.7		*	%	0.1	0.5	10/09/25 1:07	grw

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				10/08/25 8:26	jsa
Digestion - Hot Plate	EPA 3050B				*				10/10/25 14:52	clr
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2				*				10/09/25 8:02	jsa

Arizona license number: AZ0102

Environmental Restoration Group
Project ID:
Sample ID: NNW

ACZ Sample ID: ***L97533-04***
Date Sampled: *10/01/25 10:20*
Date Received: *10/06/25*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Uranium, total (3050)	EPA 6020B	510	0.840		*	mg/Kg	0.051	0.255	10/15/25 18:31	jrj

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	D2216-80	1	87.8		*	%	0.1	0.5	10/09/25 2:36	grw

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				10/08/25 8:29	jsa
Digestion - Hot Plate	EPA 3050B				*				10/10/25 15:11	clr
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2				*				10/09/25 8:08	jsa

Arizona license number: AZ0102

Environmental Restoration Group
Project ID:
Sample ID: NNE

ACZ Sample ID: ***L97533-05***
Date Sampled: *10/01/25 11:10*
Date Received: *10/06/25*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Uranium, total (3050)	EPA 6020B	505	0.688		*	mg/Kg	0.0505	0.253	10/15/25 18:33	jrj

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	D2216-80	1	91.1		*	%	0.1	0.5	10/09/25 4:05	grw

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				10/08/25 8:31	jsa
Digestion - Hot Plate	EPA 3050B				*				10/10/25 15:31	clr
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2				*				10/09/25 8:14	jsa

Arizona license number: AZ0102

Environmental Restoration Group
Project ID:
Sample ID: SOUTH WASH

ACZ Sample ID: ***L97533-06***
Date Sampled: *10/01/25 12:05*
Date Received: *10/06/25*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Uranium, total (3050)	EPA 6020B	515	0.982		*	mg/Kg	0.0515	0.258	10/15/25 18:35	jrj

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	D2216-80	1	85.6		*	%	0.1	0.5	10/09/25 7:02	grw

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				10/08/25 8:34	jsa
Digestion - Hot Plate	EPA 3050B				*				10/10/25 15:51	clr
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2				*				10/09/25 8:20	jsa

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4) EPA SW-846. Test Methods for Evaluating Solid Waste.
(5) Standard Methods for the Examination of Water and Wastewater.

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:
https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

ERG

ACZ Project ID: ***L97533***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Solids, Percent D2216-80

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG621420													
WG621420PBS	PBS	10/08/25 10:20				U	%		-0.1	0.1			
L97533-05DUP	DUP	10/09/25 5:33			91.1	90.8	%				0	20	

Uranium, total (3050) EPA 6020B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG621962													
WG621962ICV	ICV	10/15/25 17:35	MS250911-3	.05		.04849	mg/L	97	90	110			
WG621962ICB	ICB	10/15/25 17:37				U	mg/L		-0.0003	0.0003			
WG621620PBS	PBS	10/15/25 17:57				U	mg/Kg		-0.15	0.15			
WG621620LCSS1	LCSS	10/15/25 17:59	PCN629357	20		21.45429	mg/Kg		15.1	25			
WG621620LCSSD1	LCSSD	10/15/25 18:05	PCN629357	20		22.03053	mg/Kg		15.1	25	3	20	
L97452-02MS	MS	10/15/25 18:10	MS250917-4	13	7.63	22.45149	mg/Kg	114	75	125			
L97452-02MSD	MSD	10/15/25 18:12	MS250917-4	13	7.63	21.93492	mg/Kg	110	75	125	2	20	

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Inorganic Extended Qualifier Report

Environmental Restoration Group

ACZ Project ID: ***L97533***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

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RadioChemistry Analytical Results

Environmental Restoration Group
Project ID:
Sample ID: RED HORSE WASH
Locator:

ACZ Sample ID: ***L97533-01***
Date Sampled: *09/30/25 15:50*
Date Received: *10/06/25*
Sample Matrix: *Soil*

Gamma Emitting Nuclides — Prep Method:
EPA 901.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Ac-228	12/03/25 10:49		1.2502	0.26	0.74	pCi/g	*	amk/msm
Cs-137	12/03/25 10:49		0.44992	0.1	0.22	pCi/g	*	amk/msm
K-40	12/03/25 10:49		11.185	2.01	4.31	pCi/g	*	amk/msm
Ra-226	12/03/25 10:49		3.3728	1.33	3.05	pCi/g	*	amk/msm
Th-232	12/03/25 10:49		3.0015	31.42	73.2	pCi/g	*	amk/msm
Tl-208	12/03/25 10:49		0.37515	0.08	0.17	pCi/g	*	amk/msm

Gross Alpha & Beta (3050) — Prep Method:
EPA 9310

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/24/25 0:04		8.4	1.8	0.74	pCi/g	*	tlc
Gross Beta	11/24/25 0:04		9.8	1.2	1.2	pCi/g		tlc

Arizona license number: AZ0102

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RadioChemistry Analytical Results

Environmental Restoration Group
Project ID:
Sample ID: LITTLE RED HORSE WASH
Locator:

ACZ Sample ID: ***L97533-02***
Date Sampled: *09/30/25 16:20*
Date Received: *10/06/25*
Sample Matrix: *Soil*

Gamma Emitting Nuclides — Prep Method:
EPA 901.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Ac-228	12/03/25 11:56		1.1866	0.22	0.66	pCi/g	*	amk/msm
Cs-137	12/03/25 11:56		0.46275	0.1	0.21	pCi/g	*	amk/msm
K-40	12/03/25 11:56		23.803	2.4	4.04	pCi/g	*	amk/msm
Ra-226	12/03/25 11:56		3.4093	1.2	2.75	pCi/g	*	amk/msm
Th-232	12/03/25 11:56		-14.571	34.47	1.22	pCi/g	*	amk/msm
Tl-208	12/03/25 11:56		0.35335	0.07	0.16	pCi/g	*	amk/msm

Gross Alpha & Beta (3050) — Prep Method:
EPA 9310

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/24/25 0:07		11	3.2	1.6	pCi/g	*	tlc
Gross Beta	11/24/25 0:07		15	2.3	2.4	pCi/g		tlc

Arizona license number: AZ0102

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RadioChemistry Analytical Results

Environmental Restoration Group
Project ID:
Sample ID: OWL TANK
Locator:

ACZ Sample ID: ***L97533-03***
Date Sampled: *10/01/25 7:40*
Date Received: *10/06/25*
Sample Matrix: *Soil*

Gamma Emitting Nuclides — Prep Method:
EPA 901.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Ac-228	12/03/25 13:18		1.149	0.21	0.64	pCi/g	*	amk/msm
Cs-137	12/03/25 13:18		0.18334	0.07	0.15	pCi/g	*	amk/msm
K-40	12/03/25 13:18		11.468	1.89	3.99	pCi/g	*	amk/msm
Ra-226	12/03/25 13:18		3.2142	1.21	2.77	pCi/g	*	amk/msm
Th-232	12/03/25 13:18		20.731	14.41	33.4	pCi/g	*	amk/msm
Tl-208	12/03/25 13:18		0.38904	0.09	0.2	pCi/g	*	amk/msm

Gross Alpha & Beta (3050) — Prep Method:
EPA 9310

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/24/25 0:08		5.9	1.6	0.77	pCi/g	*	tlc
Gross Beta	11/24/25 0:08		8.7	1.3	1.3	pCi/g		tlc

Arizona license number: AZ0102

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RadioChemistry Analytical Results

Environmental Restoration Group
Project ID:
Sample ID: NNW
Locator:

ACZ Sample ID: ***L97533-04***
Date Sampled: *10/01/25 10:20*
Date Received: *10/06/25*
Sample Matrix: *Soil*

Gamma Emitting Nuclides — Prep Method:
EPA 901.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Ac-228	12/03/25 14:19		0.94181	0.2	0.45	pCi/g	*	amk/msm
Cs-137	12/03/25 14:19		0.38457	0.07	0.15	pCi/g	*	amk/msm
K-40	12/03/25 14:19		16.428	1.74	3.05	pCi/g	*	amk/msm
Ra-226	12/03/25 14:19		3.6833	0.68	1.48	pCi/g	*	amk/msm
Th-232	12/03/25 14:19		5.3096	10.1	23.5	pCi/g	*	amk/msm
Tl-208	12/03/25 14:19		0.3735	0.07	0.15	pCi/g	*	amk/msm

Gross Alpha & Beta (3050) — Prep Method:
EPA 9310

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/24/25 0:10		9.6	1.9	0.7	pCi/g	*	tlc
Gross Beta	11/24/25 0:10		9.3	1.2	1.2	pCi/g		tlc

Arizona license number: AZ0102

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RadioChemistry Analytical Results

Environmental Restoration Group
Project ID:
Sample ID: NNE
Locator:

ACZ Sample ID: ***L97533-05***
Date Sampled: *10/01/25 11:10*
Date Received: *10/06/25*
Sample Matrix: *Soil*

Gamma Emitting Nuclides — Prep Method:
EPA 901.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Ac-228	12/03/25 15:20		1.2596	0.24	0.55	pCi/g	*	amk/msm
Cs-137	12/03/25 15:20		0.057179	0.09	0.21	pCi/g	*	amk/msm
K-40	12/03/25 15:20		18.743	2.05	3.69	pCi/g	*	amk/msm
Ra-226	12/03/25 15:20		3.0509	0.98	2.23	pCi/g	*	amk/msm
Th-232	12/03/25 15:20		-22.139	35.01	0.86	pCi/g	*	amk/msm
Tl-208	12/03/25 15:20		0.38987	0.07	0.16	pCi/g	*	amk/msm

Gross Alpha & Beta (3050) — Prep Method:
EPA 9310

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/24/25 0:12		6.5	1.7	0.76	pCi/g	*	tlc
Gross Beta	11/24/25 0:12		8.4	1.3	1.4	pCi/g		tlc

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RadioChemistry Analytical Results

Environmental Restoration Group
Project ID:
Sample ID: SOUTH WASH
Locator:

ACZ Sample ID: ***L97533-06***
Date Sampled: *10/01/25 12:05*
Date Received: *10/06/25*
Sample Matrix: *Soil*

Gamma Emitting Nuclides — Prep Method:
EPA 901.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Ac-228	12/03/25 16:23		1.3876	0.29	0.7	pCi/g	*	amk/msm
Cs-137	12/03/25 16:23		0.21977	0.07	0.17	pCi/g	*	amk/msm
K-40	12/03/25 16:23		23.941	2.46	4.23	pCi/g	*	amk/msm
Ra-226	12/03/25 16:23		4.5213	1.42	3.24	pCi/g	*	amk/msm
Th-232	12/03/25 16:23		6.7367	34.01	79.2	pCi/g	*	amk/msm
Tl-208	12/03/25 16:23		0.51284	0.09	0.2	pCi/g	*	amk/msm

Gross Alpha & Beta (3050) — Prep Method:
EPA 9310

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/24/25 0:14		11	2.4	0.97	pCi/g	*	tlc
Gross Beta	11/24/25 0:14		14	1.7	1.6	pCi/g		tlc

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Error(+/-)	Calculated sample specific uncertainty
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
LCL	Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD	Calculated sample specific Lower Limit of Detection
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RER	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
UCL	Upper Control Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

DUP	Sample Duplicate	*MS/MSD*	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	*PBS*	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	*PBW*	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.

Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

(1)	Solid matrices are reported on a dry weight basis.
(2)	Preparation method: "Method" indicates preparation defined in analytical method.
(3)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:
https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

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Radiochemistry QC Summary

ERG

ACZ Project ID: ***L97533***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alpha EPA 9310 **Units:** pCi/g

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG624306																
WG621614PBS	PBS	11/24/25						-.14	0.1	0.3			0.6			
WG621614LCSSA	LCSS	11/24/25	PCN628501	39.96				34	3.2	0.59	85	67	144			
L97533-01DUP	DUP-RPD	11/24/25			8.4	1.8	0.74	8	1.8	0.71				5	20	
L97533-01DUP	DUP-RER	11/24/25			8.4	1.8	0.74	8	1.8	0.71				0.16	2	
L97533-04MSA	MS	11/24/25	PCN628501	25.62	9.6	1.9	0.7	26	3.1	0.72	64	67	144			M1

Beta EPA 9310 **Units:** pCi/g

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG624306																
WG621614PBS	PBS	11/24/25						-.55	0.51	0.87			1.74			
WG621614LCSSB	LCSS	11/24/25	RC251015-10	40				33	2.5	1.7	83	82	122			
L97533-01DUP	DUP-RPD	11/24/25			9.8	1.2	1.2	9.7	1.3	1.2				1	20	
L97533-06MSB	MS	11/24/25	RC251015-10	34.48	14	1.7	1.6	50	2.8	1.6	104	82	122			

ERG

ACZ Project ID: ***L97533***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Method: EPA 901.1
Workgroup: WG624776
Units: pCi/g
Analysis Date: 12/03/25

L97533-06DUP

Nuclide	Type	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
Ac-228	DUP-RPD	NONE		1.3876	0.29	0.7	1.5399	0.3	0.79				10	20	
Cs-137	DUP-RER	NONE		0.21977	0.07	0.17	.35857	0.1	0.22				1.14	2	
Cs-137	DUP-RPD	NONE		0.21977	0.07	0.17	.35857	0.1	0.22				48	20	RG
K-40	DUP-RPD	NONE		23.941	2.46	4.23	23.7	2.45	4.21				1	20	
Ra-226	DUP-RER	NONE		4.5213	1.42	3.24	3.4225	1.2	2.75				0.59	2	
Ra-226	DUP-RPD	NONE		4.5213	1.42	3.24	3.4225	1.2	2.75				28	20	RG
Th-232	DUP-RER	NONE		6.7367	34.01	79.2	15.639	33.98	79.1				0.19	2	
Th-232	DUP-RPD	NONE		6.7367	34.01	79.2	15.639	33.98	79.1				80	20	RG
Tl-208	DUP-RPD	NONE		0.51284	0.09	0.2	.53736	0.09	0.19				5	20	

Method: EPA 901.1
Workgroup: WG624776
Units: pCi/g
Analysis Date: 12/03/25

WG624776LCSS

Nuclide	Type	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
Cd-109	LCSS	PCN65872	351.9				360.5	46.35	91.78	102	90	110			
Co-60	LCSS	PCN65872	72.2				73.452	5.07	4.01	102	90	110			

Method: EPA 901.1
Workgroup: WG624776
Units: pCi/g
Analysis Date: 12/03/25

WG624776PBS

Nuclide	Type	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
Ac-228	PBS	NONE					.049395	0.04	0.08			0.1552			
Cs-137	PBS	NONE					-.0072252	0.03	0.02			0.032			
K-40	PBS	NONE					0	0.05	1.2			2.4			
Ra-226	PBS	NONE					-.24156	0.9	0.1			0.208			
Th-232	PBS	NONE					0	0.36	8.37			16.74			
Tl-208	PBS	NONE					-.0051554	0.03	0.02			0.0408			

Environmental Restoration Group ACZ Project ID: ***L97533***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L97533-01	WG624776	Cs-137	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG624306	Gross Alpha	EPA 9310	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG624776	Ra-226	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Th-232	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L97533-02	WG624776	Cs-137	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG624306	Gross Alpha	EPA 9310	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG624776	Ra-226	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Th-232	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L97533-03	WG624776	Cs-137	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG624306	Gross Alpha	EPA 9310	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG624776	Ra-226	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Th-232	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L97533-04	WG624776	Cs-137	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG624306	Gross Alpha	EPA 9310	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG624776	Ra-226	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Th-232	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L97533-05	WG624776	Cs-137	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG624306	Gross Alpha	EPA 9310	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG624776	Ra-226	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Th-232	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Environmental Restoration Group ACZ Project ID: ***L97533***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L97533-06	WG624776	Cs-137	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG624306	Gross Alpha	EPA 9310	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG624776	Ra-226	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Th-232	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Metals Analysis

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.	
Uranium, total (3050)	EPA 6020B

Radiochemistry

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.	
Ac-228	EPA 901.1
Cs-137	EPA 901.1
K-40	EPA 901.1
Ra-226	EPA 901.1
Th-232	EPA 901.1
Tl-208	EPA 901.1
The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.	
Ac-228	EPA 901.1
Cs-137	EPA 901.1
K-40	EPA 901.1
Ra-226	EPA 901.1
Th-232	EPA 901.1
Tl-208	EPA 901.1

Soil Analysis

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.	
Solids, Percent	D2216-80
The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.	
Solids, Percent	D2216-80

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Environmental Restoration Group

ACZ Project ID: L97533
Date Received: 10/06/2025 15:53
Received By:
Date Printed: 10/7/2025

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
6176	16.7	NA	15	Yes

Ice Present? No - Wet or gel ice was not present in the shipment container(s).

Was this a domestic shipment?

Yes - This is a domestic shipment.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Environmental Restoration Group

ACZ Project ID: L97533
Date Received: 10/06/2025 15:53
Received By:
Date Printed: 10/7/2025

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ LABORATORIES | Accredited Environmental Testing | 2773 Downhill Drive, Steamboat Springs, CO 80487, (970) 879-6590 | L97533

CHAIN of CUSTODY

Report to:

Name: Chuck Farr	Address: 8809 Washington St. NE, Suite 150
Company: ERG	Albuquerque, NM 87113
E-mail: chuckfarr@ergoffice.com	Telephone: 505-298-4224

Copy of Report to:

Name:	E-mail:
Company:	Telephone:

Invoice to:

Name: Same	Address:
Company:	
E-mail:	Telephone:

Copy of Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES ✔ NO

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes No ✔

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: CFarr **Sampler's Site Information** **State** AZ **Zip code** _____ **Time Zone** AZ

***Sampler's Signature:** CFarr

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

Quote #: RADCHEM-SOIL-2025

PO#: ERG: 0229-03-09-a

Reporting state for compliance testing:

Check box if samples include NRC licensed material?

ANALYSES REQUESTED (attach list or use quote number)

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers		EPA 6020B	EPA 901.1	EPA 9310				
Red Horse Wash	9/30/2025 15:50	SO	2								
Little Red Horse Wash	9/30/2025 16:20	SO	2								
Owl Tank	10/1/2025 07:40	SO	2								
NNW	10/1/2025 10:20	SO	2								
NNE	10/1/2025 11:10	SO	2								
South Wash	10/1/2025 12:05	SO	2								

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Total Uranium (EPA 6020B)
Gross alpha/beta (EPA 9310)
Gamma Spec (901.1)for Ra-226, K-40, Tl-208, Cs-137, Th-232 (by Ac-228)

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
CFarr	10/3/2025		10/6/25 1544

Qualtrax ID: 1984 Revision #: 2 White - Return with sample. Yellow - Retain for your records.

L97533 Chain of Custo

Radiation Safety Engineering, Inc.
3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com FAX (480) 892-5446

Gamma Emitters in Soil (pCi/gram)

ERG
8809 Washington St. NE
Suite 150
Albuquerque, NM 87113

Sample ID: Red Horse Wash

Sample Date: 9/30/2025
Date of Analysis: 2/21/2026

Requested Isotopes

Nuclide	Activity EPA 901.1 (pCi/gram)	MDC
K-40	17.0 ± 0.8	0.213
Ra-226 (Bi-214)	0.99 ± 0.06	0.06
Tl-208	0.35 ± 0.02	0.014
Cs-137	0.39 ± 0.03	0.033
Th-232 (Ac-228)	0.98 ± 0.06	0.086

Other detected isotopes

Nuclide	Activity EPA 901.1 (pCi/gram)	MDC
Ra-224	1.0 ± 0.3	0.971
Pb-214	0.97 ± 0.05	0.06
Bi-212	1.60 ± 0.09	0.368

February 23, 2026
Robert L. Metzger, Ph.D., C.H.P. Date

Laboratory License Number AZ0462

Radiation Safety Engineering, Inc.
3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com FAX (480) 892-5446

Gamma Emitters in Soil (pCi/gram)

ERG
8809 Washington St. NE
Suite 150
Albuquerque, NM 87113

Sample ID: Little Red Horse

Sample Date: 9/30/2025
Date of Analysis: 2/21/2026

Requested Isotopes

Nuclide	Activity EPA 901.1 (pCi/gram)	MDC
K-40	19.7 ± 0.8	0.17
Ra-226 (Bi-214)	1.08 ± 0.05	0.042
Tl-208	0.42 ± 0.02	0.007
Cs-137	0.34 ± 0.02	0.022
Th-232 (Ac-228)	1.14 ± 0.06	0.092

Other detected isotopes

Nuclide	Activity EPA 901.1 (pCi/gram)	MDC
Ra-224	1.3 ± 0.2	0.717
Pb-210	2.4 ± 0.6	1.44
Pb-214	1.06 ± 0.05	0.039
Bi-212	1.7 ± 0.2	0.266

February 23, 2026
Robert L. Metzger, Ph.D., C.H.P. Date
Laboratory License Number AZ0462

Radiation Safety Engineering, Inc.
3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com FAX (480) 892-5446

Gamma Emitters in Soil (pCi/gram)

ERG
8809 Washington St. NE
Suite 150
Albuquerque, NM 87113

Sample ID: Owl Tank

Sample Date: 10/1/2025
Date of Analysis: 2/21/2026

Requested Isotopes

Nuclide	Activity EPA 901.1 (pCi/gram)	MDC
K-40	16.2 ± 0.7	0.14
Ra-226 (Bi-214)	1.06 ± 0.05	0.044
Tl-208	0.35 ± 0.02	0.006
Cs-137	0.10 ± 0.01	0.071
Th-232 (Ac-228)	0.93 ± 0.06	0.071

Other detected isotopes

Nuclide	Activity EPA 901.1 (pCi/gram)	MDC
Ra-224	1.4 ± 0.2	0.585
Pb-214	1.06 ± 0.05	0.037
Bi-212	1.3 ± 0.1	0.23

February 23, 2026
Robert L. Metzger, Ph.D., C.H.P. Date

Laboratory License Number AZ0462

Radiation Safety Engineering, Inc.
3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com FAX (480) 892-5446

Gamma Emitters in Soil (pCi/gram)

ERG
8809 Washington St. NE
Suite 150
Albuquerque, NM 87113

Sample ID: NNW

Sample Date: 10/1/2025
Date of Analysis: 2/22/2026

Requested Isotopes

Nuclide	Activity EPA 901.1 (pCi/gram)	MDC
K-40	15.3 ± 0.7	0.188
Ra-226 (Bi-214)	1.51 ± 0.07	0.057
Tl-208	0.35 ± 0.02	0.006
Cs-137	0.33 ± 0.02	0.02
Th-232 (Ac-228)	1.08 ± 0.07	0.089

Other detected isotopes

Nuclide	Activity EPA 901.1 (pCi/gram)	MDC
Ra-224	1.3 ± 0.3	0.817
Pb-214	1.52 ± 0.07	0.053
Bi-212	1.4 ± 0.2	0.291

February 23, 2026
Robert L. Metzger, Ph.D., C.H.P. Date
Laboratory License Number AZ0462

Radiation Safety Engineering, Inc.
3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com FAX (480) 892-5446

Gamma Emitters in Soil (pCi/gram)

ERG
8809 Washington St. NE
Suite 150
Albuquerque, NM 87113

Sample ID: NNE

Sample Date: 10/1/2025
Date of Analysis: 2/22/2026

Requested Isotopes

Nuclide	Activity EPA 901.1 (pCi/gram)	MDC
K-40	15.2 ± 0.6	0.119
Ra-226 (Bi-214)	1.02 ± 0.05	0.044
Tl-208	0.37 ± 0.02	0.011
Cs-137	0.034 ± 0.006	0.015
Th-232 (Ac-228)	0.98 ± 0.05	0.066

Other detected isotopes

Nuclide	Activity EPA 901.1 (pCi/gram)	MDC
Ra-224	1.3 ± 0.2	0.619
Pb-214	1.01 ± 0.05	0.037
Bi-212	1.7 ± 0.2	0.205

February 23, 2026
Robert L. Metzger, Ph.D., C.H.P. Date
Laboratory License Number AZ0462

Radiation Safety Engineering, Inc.

3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com FAX (480) 892-5446

Gamma Emitters in Soil (pCi/gram)

ERG
8809 Washington St. NE
Suite 150
Albuquerque, NM 87113

Sample ID: South Wash

Sample Date: 10/1/2025
Date of Analysis: 2/22/2026

Requested Isotopes

Nuclide	Activity EPA 901.1 (pCi/gram)	MDC
K-40	19.4 ± 0.8	0.178
Ra-226 (Bi-214)	1.30 ± 0.06	0.045
Tl-208	0.46 ± 0.02	0.012
Cs-137	0.18 ± 0.01	0.02
Th-232 (Ac-228)	1.38 ± 0.07	0.078

Other detected isotopes

Nuclide	Activity EPA 901.1 (pCi/gram)	MDC
Ra-224	1.3 ± 0.2	0.709
Pb-214	1.28 ± 0.06	0.046
Bi-212	1.7 ± 0.2	0.251

February 23, 2026

Robert L. Metzger, Ph.D., C.H.P. Date

Laboratory License Number AZ0462

Client Information

Name: CHUCK FARR
Company: ERG
Address: SUITE 150 8809 WASHINGTON ST. NE, ALBUQUERQUE, NM, 87113
Phone: (505) 298-4224
PWS#:
Sampler Sig.: CFarr
Phone #:

Radiation Safety Engineering, Inc.

3245 North Washington Street
Chandler, Arizona 85225

Analysis Request

Sample ID & Location (DWR#)		Collection Date	Collection Time	Media (DW* WW* Other)	Drinking Water Compliance	Gross Alpha	Gross Beta	Total Uranium	Isotopic Uranium	Ra-226	Ra-228	H-3	Gamma Spectroscopy	Sr-89/Sr-90	Radon in Water	Radon in Air
1		9/30/25	~~15:30~~	SOIL	17:35	JMC							X			79287
2		9/30/25	~~16:20~~		17:15	JMC							X			79288
3		10/1/25	7:40										X			79289
4		10/1/25	10:20										X			79290
5		10/1/25	11:10										X			79291

Sample Receipt

Total No. of Containers

Chain of Custody Seals

Container Condition

Lab No.

Invoice to: CHUCK FARR @ ERGOFFICE.COM

Instructions/Comments
REFERENCE:
EFRI-PP
0229-03-09

Relinquished by:
Signature: CFarr
Printed Name: CHUCK FARR
Company: ERG
Date: FEB 4, 2026

Received by:
Signature:
Printed Name: Jacob M Crawford
Company: Radiation Safety Engineering, Inc.
Date: 2/6/26 11:05am

u/client/forms/cofc.frm

* DW = Drinking Water, WW = Waste Water.

Client Information

Name: CHUCK FARR
Company: ERG
Address: 8809 WASHINGTON ST. NE, ABQ, NM 87113
Phone: (505) 298-4224
PWS#:
Sampler Sig. Phone #: CFARR

Radiation Safety Engineering, Inc.

3245 North Washington Street
Chandler, Arizona 85225

Analysis Request

NEED Ra-226 (BY Bi-218, METHOD 901.1)

Sample ID & Location (DWR#)		Collection Date	Collection Time	Media (DW* WW* Other)	Drinking Water Compliance	Gross Alpha	Gross Beta	Total Uranium	Isotopic Uranium	Ra-226	Ra-228	H-3	Gamma Spectroscopy	Sr-89/Sr-90	Radon in Water	Radon in Air
6		10/1/25	12:05	SOIL									X			79292

Sample Receipt	
Total No. of Containers	
Chain of Custody Seals	
Container Condition	
Lab No.	

Invoice to:
CHUCKFARR@ERGOFFICE.COM

Instructions/Comments
REFERENCE: (EFRI - PP 0229-03-09)

Relinquished by:
Signature: CFARR
Printed Name: CHUCK FARR
Company: ERG
Date: FEB 4, 2026

Received by:
Signature: [signature]
Printed Name: Jacob M Crawford
Company: Radiation Safety Engineering, Inc.
Date: 2/6/26 11:05 am

u/client/forms/cofc.frm

* DW = Drinking Water, WW = Waste Water.

Sample #:	Sample Name:
1	Red Horse Wash
2	Little Red Horse Wash
3	Owl Tank
4	NNW
5	NNE
6	South Wash

Sample Analysis: Gamma Spec

- Ra-226 *NOTE: would like MDC for RA-226 less than 0.5 pCi/g, if possible.*
- K-40
- Tl-208
- Cs-137
- Th-232

Appendix D

Water Sample Laboratory Results

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Revised Analytical Report

January 05, 2026

Report to:
Chuck Farr
Environmental Restoration Group
8809 Washington St.
Suite 150
Albuquerque, NM 87113

Bill to:
Accounts Payable
Environmental Restoration Group
8809 Washington St. NW
Suite 150
Albuquerque, NM 87113

Project ID:
ACZ Project ID: L97534

Chuck Farr:

Enclosed are revised analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 06, 2025 and originally reported on December 11, 2025. Refer to the case narrative for an explanation of the changes. This project was assigned to ACZ's project number, L97534. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L97534. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after January 10, 2026. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

Mark McNeal

Mark McNeal has reviewed and approved this report.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Case Narrative

Environmental Restoration Group

January 05, 2026

Project ID:
ACZ Project ID: L97534

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 groundwater sample from Environmental Restoration Group on October 6, 2025. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L97534. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

This sample was analyzed for inorganic, radiochemistry parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports.

This report is being reissued to inlclude a value for Ra226 via EPA 903.1.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Environmental Restoration Group
Project ID:
Sample ID: OWL TANK

ACZ Sample ID: ***L97534-01***
Date Sampled: *09/03/25 16:36*
Date Received: *10/06/25*
Sample Matrix: *Groundwater*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Block Digestion ICP-MS	EPA 200.2				*				10/08/25 18:09	sjs

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Uranium, total	EPA 200.8	5	0.00295			mg/L	0.0005	0.0025	10/09/25 16:42	jrj

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4) EPA SW-846. Test Methods for Evaluating Solid Waste.
(5) Standard Methods for the Examination of Water and Wastewater.

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:
https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

Environmental Restoration Group

ACZ Project ID: ***L97534***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Uranium, total EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG621597													
WG621597ICV	ICV	10/09/25 16:18	MS250911-3	.05		.04747	mg/L	95	90	110			
WG621597ICB	ICB	10/09/25 16:20				U	mg/L		-0.0003	0.0003			
WG621488LRB	LRB	10/09/25 16:22				U	mg/L		-0.00022	0.00022			
WG621488LFB	LFB	10/09/25 16:24	MS250916-3	.05		.04816	mg/L	96	85	115			
L97544-01LFM	LFM	10/09/25 16:48	MS2XW	.1	.00365	.10019	mg/L	97	70	130			
L97544-01LFMD	LFMD	10/09/25 16:50	MS2XW	.1	.00365	.1009	mg/L	97	70	130	1	20	

Inorganic Extended Qualifier Report

Environmental Restoration Group

ACZ Project ID: ***L97534***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L97534-01	*N*G621488	Total Hot Block Digestion ICP-MS	EPA 200.2	DF	Sample required dilution due to high sediment.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Environmental Restoration Group
Project ID:
Sample ID: OWL TANK
Locator:

ACZ Sample ID: ***L97534-01***
Date Sampled: *09/03/25 16:36*
Date Received: *10/06/25*
Sample Matrix: *Groundwater*

Gamma Emitting Nuclides — Prep Method:
EPA 901.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Ac-228	12/10/25 15:08		15.737	24.5	71.3	pCi/L	*	amk/msm
Cs-137	12/10/25 15:08		2.9079	8.7	20.3	pCi/L	*	amk/msm
K-40	12/10/25 15:08		57.662	133.2	310	pCi/L	*	amk/msm
Ra-226	12/10/25 15:08		53.437	139.83	326	pCi/L	*	amk/msm
Th-232	12/10/25 15:08		220.41	2372.3	5530	pCi/L	*	amk/msm
Tl-208	12/10/25 15:08		-2.6075	9.8	1.34	pCi/L	*	amk/msm

Gross Alpha & Beta, total — Prep Method:
EPA 900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/14/25 0:05		5.1	2.4	4.6	pCi/L		tlc
Gross Beta	11/14/25 0:05		13	3.5	7.1	pCi/L		tlc

Radium 226, total — Prep Method:
EPA 903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	12/30/25 0:17		0.12	0.08	0.23	pCi/L	*	ksl

Thorium, Isotopic Total — Prep Method:
ESM 4506

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 228, total	01/03/26 12:48		-8.66	8.5	18	pCi/L	*	amk
Thorium 230, total	01/03/26 12:48		-6.23	16	29	pCi/L	*	amk
Thorium 232, total	01/03/26 12:48		1.64	5.3	10	pCi/L	*	amk

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Error(+/-)	Calculated sample specific uncertainty
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
LCL	Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD	Calculated sample specific Lower Limit of Detection
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RER	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
UCL	Upper Control Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

DUP	Sample Duplicate	*MS/MSD*	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	*PBS*	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	*PBW*	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.

Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

(1)	Solid matrices are reported on a dry weight basis.
(2)	Preparation method: "Method" indicates preparation defined in analytical method.
(3)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:
https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Radiochemistry QC Summary

Environmental Restoration Group

ACZ Project ID: ***L97534***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alpha EPA 900.0 **Units:** pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG623564																
WG623564PBW	PBW	11/14/25						.09	0.83	5.3			10.6			
WG623564LCSWA	LCSW	11/14/25	PCN628501	99.9				70	6.8	5.6	70	67	144			
L97534-01DUP	DUP-RPD	11/14/25			5.1	2.4	4.6	6	2.7	6				16	20	
L97660-01MSA	MS	11/14/25	PCN628501	99.9	1.7	1.8	6.7	71	9.2	15	69	67	144			
L98017-06DUP	DUP-RPD	11/14/25			12	4.3	8.1	11	4.1	10				9	20	

Beta EPA 900.0 **Units:** pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG623564																
WG623564PBW	PBW	11/14/25						.37	2.8	11			22			
WG623564LCSWB	LCSW	11/14/25	RC251015-10	100				84	6.3	24	84	82	122			
L97534-01DUP	DUP-RPD	11/14/25			13	3.5	7.1	14	3.6	11				7	20	
L97731-03MSB	MS	11/14/25	RC251015-10	100	9.9	3.5	11	110	7.1	7.6	100	82	122			
L98017-06DUP	DUP-RPD	11/14/25			9	3.4	12	7.2	3.5	12				22	20	RG
L98017-06DUP	DUP-RER	11/14/25			9	3.4	12	7.2	3.5	12				0.37	2	

Radium 226, total EPA 903.1 **Units:** pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG625993																
WG625993LCSW	LCSW	12/30/25	PCN629606	20				16	0.4	0.06	80	43	148			N1
WG625993PBW	PBW	12/30/25						-.02	0.06	0.07			0.14			
L98152-01DUP	DUP-RER	12/30/25			0.24	0.07	0.24	.13	0.06	0.29				1.19	2	
L98152-01DUP	DUP-RPD	12/30/25			0.24	0.07	0.24	.13	0.06	0.29				59	20	RG
L98154-01MS	MS	12/30/25	PCN629606	20	0.12	0.08	0.33	17	0.39	0.26	84	43	148			
L98303-06DUP	DUP-RPD	12/30/25			0.07	0.05	0.2	.05	0.06	0.13				33	20	RG
L98303-06DUP	DUP-RER	12/30/25			0.07	0.05	0.2	.05	0.06	0.13				0.25	2	

Environmental Restoration Group

ACZ Project ID: ***L97534***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Th-228 ESM 4506 **Units:** pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG626457																
WG626457PBW	PBW	01/03/26						-.201	0.37	0.75			1.5			
L98595-01DUP	DUP-RPD	01/03/26			-0.214	0.34	0.7	-.175	0.35	0.7				20	20	

Th-230 ESM 4506 **Units:** pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG626457																
WG626457LCSW	LCSW	01/03/26	PCN627498	200				199	25	0.85	100	91	126			
WG626457PBW	PBW	01/03/26						.504	0.59	0.98			1.96			
L98595-01DUP	DUP-RER	01/03/26			0.243	0.54	0.94	.18	0.5	0.87				0.09	2	
L98595-01DUP	DUP-RPD	01/03/26			0.243	0.54	0.94	.18	0.5	0.87				30	20	RG
L98859-03MS	MS	01/04/26	PCN627498	200	0.131	0.59	1	199	25	0.95	99	91	126			

Th-232 ESM 4506 **Units:** pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG626457																
WG626457PBW	PBW	01/03/26						-.288	0.27	0.62			1.24			
L98595-01DUP	DUP-RPD	01/03/26			0.133	0.19	0.31	.0514	0.17	0.32				89	20	RG
L98595-01DUP	DUP-RER	01/03/26			0.133	0.19	0.31	.0514	0.17	0.32				0.32	2	

Environmental Restoration Group

ACZ Project ID: ***L97534***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Method: EPA 901.1
Workgroup: WG625292
Units: pCi/L

L97534-01DUP

Analysis Date: 12/11/25

Nuclide	Type	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
Ac-228	DUP-RER	NONE		15.737	24.5	71.3	-12.341	22.03	13.1				0.85	2	
Ac-228	DUP-RPD	NONE		15.737	24.5	71.3	-12.341	22.03	13.1				1654	20	RG
Cs-137	DUP-RER	NONE		2.9079	8.7	20.3	-1.9243	9.67	2.05				0.37	2	
Cs-137	DUP-RPD	NONE		2.9079	8.7	20.3	-1.9243	9.67	2.05				983	20	RG
K-40	DUP-RPD	NONE		57.662	133.2	310	70.367	90.31	210				20	20	
Ra-226	DUP-RER	NONE		53.437	139.83	326	81.903	140.49	327				0.14	2	
Ra-226	DUP-RPD	NONE		53.437	139.83	326	81.903	140.49	327				42	20	RG
Th-232	DUP-RER	NONE		220.41	2372.3	5530	1763.3	1648.1	3830				0.53	2	
Th-232	DUP-RPD	NONE		220.41	2372.3	5530	1763.3	1648.1	3830				156	20	RG
Tl-208	DUP-RER	NONE		-2.6075	9.8	1.34	4.7103	7.41	17.3				0.6	2	
Tl-208	DUP-RPD	NONE		-2.6075	9.8	1.34	4.7103	7.41	17.3				696	20	RG

Method: ESM 4506
Workgroup: WG626457
Units: pCi/L

L98595-01DUP

Analysis Date: 01/03/26

Nuclide	Type	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
Th-232	DUP-RER			0.133	0.19	0.31	.0514	0.17	0.32				0.32	2	
Th-232	DUP-RPD			0.133	0.19	0.31	.0514	0.17	0.32				89	20	RG

Method: EPA 901.1
Workgroup: WG625292
Units: pCi/L

WG625292LCSW

Analysis Date: 12/10/25

Nuclide	Type	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
Cd-109	LCSW	PCN61200	147750				151070	39338	88460	102	90	110			
Co-60	LCSW	PCN61200	30395				30109	2161.5	2491	99	90	110			
Cs-137	LCSW	PCN61200	25085				24710	1645.2	1411	99	90	110			

Method: EPA 901.1
Workgroup: WG625292
Units: pCi/L

WG625292PBW

Analysis Date: 12/10/25

Nuclide	Type	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
Ac-228	PBW	NONE					12.602	22.12	51.5			103			
Cs-137	PBW	NONE					5.8894	4.56	10.6			21.2			
K-40	PBW	NONE					-2.932	121.03	282			564			
Ra-226	PBW	NONE					63.924	123.22	287			574			
Th-232	PBW	NONE					44.082	1934.6	4510			9020			
Tl-208	PBW	NONE					-.30677	7.54	8.78			17.56			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Gamma QC Summary

Environmental Restoration Group

ACZ Project ID: ***L97534***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Method: ESM 4506
Workgroup: WG626457
Units: pCi/L
Analysis Date: 01/03/26

WG626457PBW

Nuclide	Type	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
Th-232	PBW						-.288	0.27	0.62			1.24			

RadChem Extended Qualifier Report

Environmental Restoration Group

ACZ Project ID: ***L97534***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L97534-01	WG625292	Ac-228	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Cs-137	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Ra-226	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG625993	Radium 226, total	EPA 903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG625292	Th-232	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG626457	Thorium 228, total	ESM 4506	DJ	Sample dilution required due to insufficient sample.
		Thorium 230, total	ESM 4506	DJ	Sample dilution required due to insufficient sample.
			ESM 4506	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Thorium 232, total	ESM 4506	DJ	Sample dilution required due to insufficient sample.
			ESM 4506	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG625292	Tl-208	EPA 901.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Radiochemistry

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.	
Thorium 228, total	ESM 4506
Thorium 230, total	ESM 4506
Thorium 232, total	ESM 4506
The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.	
Ac-228	EPA 901.1
K-40	EPA 901.1
Thorium 228, total	ESM 4506
Thorium 230, total	ESM 4506
Thorium 232, total	ESM 4506
Tl-208	EPA 901.1

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Environmental Restoration Group

ACZ Project ID: L97534
Date Received: 10/06/2025 16:00
Received By:
Date Printed: 10/7/2025

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA46376	12.4	NA	15	Yes

Ice Present? Yes - Wet ice was present in the shipment container(s) but was thawed by receipt at ACZ.

Was this a domestic shipment?

Yes - This is a domestic shipment.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Environmental Restoration Group

ACZ Project ID: L97534
Date Received: 10/06/2025 16:00
Received By:
Date Printed: 10/7/2025

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ LABORATORIES | Accredited Environmental Testing | 2773 Downhill Drive, Steamboat Springs, CO 80487 (970) 879-6590 | L97534

CHAIN of CUSTODY

Report to:

Name: Chuck Farr	Address: 8809 Washington St. NE, Suite 150
Company: ERG	Albuquerque, NM 87113
E-mail: chuckfarr@ergoffice.com	Telephone: (505) 298-4224

Copy of Report to:

Name:	E-mail:
Company:	Telephone:

Invoice to:

Name: Same	Address:
Company:	
E-mail:	Telephone:

Copy of Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES ✔ NO

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes No ✔

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: C. Farr **Sampler's Site Information** **State** AZ **Zip code** _____ **Time Zone** AZ

***Sampler's Signature:** C Farr

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

Quote #: RADCHEM-AQ-2025

PO#: ERG: 0229-03-09-a

Reporting state for compliance testing:

Check box if samples include NRC licensed material?

ANALYSES REQUESTED (attach list or use quote number)

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers		EPA 200.8 (TU)	EPA 200.8	EPA 901.1	EPA 900.0			
Owl Tank	9/3/2025 16:36	SW	2		✔	✔	✔	✔			

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

TOTAL U - EPA 200.8
GROSS α/β - EPA 900.0
GAMMA SPEC - Ra-226, K-40, Tl-208, Cs-137, & TH-232 (AC-228)

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
C Farr	10/3/2025		10/6/25 1545

Qualtrax ID: 1984 Revision #: 2 White - Return with sample. Yellow - Retain for your records.

L97534 Chain of Custo